

The
N&S
Catalogue
&
Photographic
Guide

80/2827.

c. 1911

Sealed..



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John H. Gear

By John H. Gear, F.R.P.S.

BURGTOR, ROTHENBURG.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, Ltd.,
LONDON.

Price One Shilling.

CATALOGUE
OF
"N & G"
CAMERAS,

Scientific Apparatus,

Shutters,

Changing Boxes,

AND

Photographic Materials.

NEWMAN & GUARDIA, Ltd.

(GOLD MEDAL, PARIS 1900.)

Showrooms, Offices & Factory:

**17 & 18, RATHBONE PLACE, OXFORD STREET,
LONDON, W.**

(Three Minutes from Tottenham Court Rd. Tube Station).

Telegraphic Address:
"GONIOMETER, LONDON."

CODE:
Special see Page 4.
5th Edition A.B.C.

Telephone:
3525 CENTRAL

TELEGRAPH AND CABLE CODE.

	Set complete with 6 Slides.	Set complete with 12 Slides.	Set complete, 6 Slides and F.P. Adapter.
"SIBYL."			
Model No. 1	Lux	Luxetter	Luxoline
" " 2a	Spec	Speccetter	Speffoline
" " 2b	Speller	Superello	Slatto
" " 3	Tesso	Tessoline	Tressarono
" " 4	Cook	Cookoline	Clocko
" " 5	Tresser	Trestine	Tarbolo
" " 6	Cressoline	Crestulot	Cretobo
" " 7	Presto	Prestofli	Plestine
" " 8	Lessing	Lestyulo	Leguppo
" " 9	Restler	Restogo	Resultant
" " 10	Tescall	Tessulot	Riscalinet
	$3\frac{1}{2} \times 2\frac{1}{2}$ Plate.	$\frac{1}{4}$ -Plate.	5×4 (or $9 \times 12c/m$) Plate.
"NYDIA."			
Complete with one Box and Leather Case :—			
Aldis <i>f</i> /7.7 Lens		Nid	Nidromo
Ross <i>f</i> /6.3 Homocentric Lens		Hom	Homoletto
Stereo 2 Homocentric Lens		—	Homessarine
SQUARE REFLECTOR.			
Zeiss "Double Protar" Lens and 3 D.D.S.			
Without Lens	Baby Babollo	Longessar Garessar	Fiforette Niforess
			Arparusu Narpaletto
LONG FOCUS REFLEX.			
With Zeiss "Double Pro- tar" Lens and Ch. Box			
Without Lens		Longfo Longfellow	Loughboro Longinette
			Longfircot Longerlu
"DE LUXE."			
With (Open Back) "Double Protar" Lens			
Do. (Closed Back) ...		Delux Deluxettoro	
UNIVERSAL B.			
With Zeiss "Tessar" <i>f</i> /6.3 Lens			
Without Lens		Uno Unitter	Unorezzo Unitoboko
			Unisarine Unitarmino
SPECIAL B.			
With "Double Protar" Lens			
Without Lens		Spebo Sendon	Segrapo Sleborobo
			Speballetter Seclusion

NEWMAN & GUARDIA, Ltd.,

17 & 18, Rathbone Place, Oxford Street, London, W.

Telephone No. :
3525 CENTRAL.

For further requirements,
A B C CODE.

Telegraphic Address :
"GONIOMETER, LONDON."

Terms of Business.



IMPORTANT NOTICE.

Goods listed in this Catalogue have been carefully selected as representing the general requirements of our customers. In the event of further Apparatus or Accessories, not mentioned, being required, we shall be pleased to supply the same at standard prices.

ORDERS.

All orders must be accompanied by a remittance or London reference. Cheques should be crossed London, County and Westminster, Oxford Street Branch.

PRICES.

All prices quoted are strictly net for cash, unless otherwise stated, and no discount can be allowed on Cameras or "N. & G." Accessories. A special 5 % Discount is allowed on Photographic Materials if the order exceeds £2.

DEPOSIT ACCOUNTS.

For the convenience of customers residing or travelling in the Country or Abroad, we undertake to send regular supplies of Photographic Materials, and any other goods they may require. For this purpose, and in order to save the expense of small remittances, we open deposit accounts for any desired amount.

FOREIGN & COLONIAL ORDERS.

All orders must be accompanied by a remittance or draft on a London house, and the remittance must be sufficient to cover cost of packing and cases.

CARRIAGE.

Unless otherwise instructed, prepaid Foreign or Colonial orders are sent by Parcel Post if possible; if too heavy for the post, by the first Steamer and packed in *tin-lined* cases.

Foreign or Colonial Orders not paid in advance, or not paid in full, cannot be sent by Post, but are shipped through a Bank or Agent for delivery on payment of amount, or balance, of the Invoice.

Packing and Carriage on Foreign and Colonial Orders are charged extra.

Goods are packed with the utmost care, and we cannot hold ourselves answerable for any damage they may sustain in transit either at home or abroad.

"N. & G." Instruments are not sent on Approval.

NEWMAN & GUARDIA, Ltd.,

NOTE NEW ADDRESS.

Showrooms, Offices & Factory :

**17 and 18, RATHBONE PLACE,
OXFORD STREET, LONDON, W.**

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Code :
5TH EDITION A.B.C.
And SPECIAL—Page 4.

Telephone :
3525 CENTRAL.

AN ECHO FROM THE SOUTH POLE.



SIR ERNEST SHACKLETON.

THE BRITISH ANTARCTIC EXPEDITION, 1907,
REGENT STREET,

February 7th, 1910.

I have much pleasure in saying that all the photographic equipment gave us complete satisfaction. The Camera used on the Southern journey was a "Newman & Guardia," and the excellent photographs which we have been able to bring back are the best testimonial that you could possibly have.

Ernest H. Shackleton

Commander.

INTRODUCTION.



Photo by Robert Waugh.

IN introducing another catalogue we have endeavoured to arrange the various apparatus and materials in such a form that it will be quite an easy matter to make your selection.

Our New Premises.

A few remarks dealing with our very extensive new premises, machinery, Show-rooms, Dark-rooms and conveniences of every kind will perhaps not be out of place.

For many years our premises in Shaftesbury Avenue was a well-known resort of photographers of every kind, but it was found that the Works away from

the Show-rooms was distinctly a disadvantage, as unnecessary delay was caused by the time taken in the transit of goods from one to the



"N. & G." Wood Department at New Premises.



"N. & G." Show Rooms
at New Premises 17 & 18, Rathbone Place, Oxford Street, W.

other. After giving the matter our due consideration we decided to obtain new premises, in which the Works, Show-rooms and Offices could be together and under one control.

The Works are now equipped with the very latest machinery necessary for the manufacture of fine metal work and woodwork of every description.

A Dark-room with every convenience is available at all times expressly for the use of customers.

The change of address has proved to be successful inasmuch that our patrons appreciate the unique opportunity of having rooms of artistic temperament, combined with Dark-rooms and conveniences for trial and selection of either apparatus or material.

As will be seen by photographs illustrating this article, the accommodation and arrangement of the Show-rooms and Works are as complete as it would be possible to desire. The Works are now under



"N. & G." Assembling Room at New Premises.

the management of an expert, capable of producing apparatus even superior to that on which "N. & G." manufacture has gained its reputation.

Various new models of popular types of Cameras have been introduced from time to time, and improvements added to other models so that the stock now offered can be considered to represent a selection of the very finest apparatus possible to obtain.

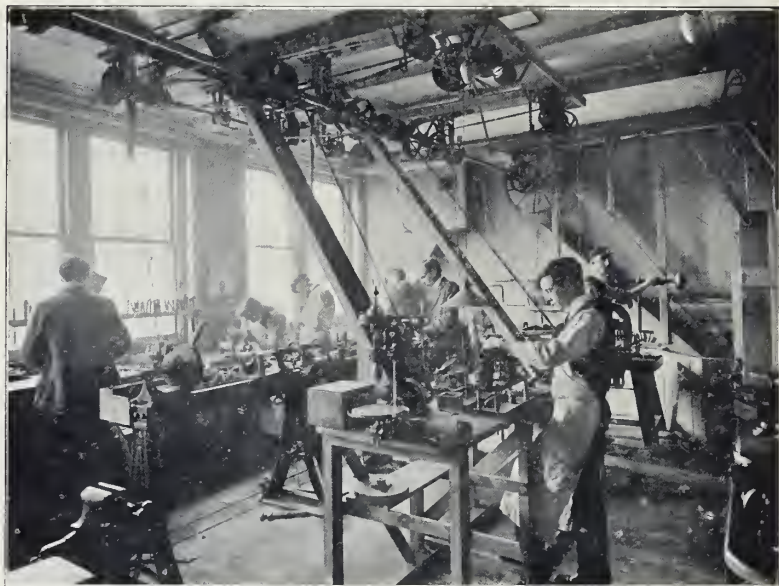
The reason why "N. & G." quality of manufacture is first of its kind in the world is that every detail receives due consideration and every working part is examined by experts, both in the assembling and the final testing. The approval of the complete instrument has to pass through the hands of various examiners, which ensures dead accuracy and complete efficiency.

"N. & G." Camera Accessories.

Special attention should be drawn to our list of "N. & G." accessories which are applicable to other makers' as well as "N. & G." instruments. The same care and attention which attaches to the manufacture of Cameras is devoted to accessories, and every confidence can be placed in all such sundries as Changing Boxes, Double Dark Slides, Autochrome Dark Slides, Film Pack Adapters, etc.

Materials.

It may not be generally known that a stock representative of practically everything photographic is available for selection. An important feature is the fact that (in cases where possible) goods are examined carefully before dispatching, and in other instances, only goods which



"N. & G." Metal Department in Works at New Premises.

have received careful test and can be confidently recommended are offered.

Briefly, we may say that everything contained in this list has been most carefully selected, and is offered with confidence and assurance that it will give satisfaction.

About Pocket Cameras.

One of the most remarkable changes in the manufacture of hand Cameras has been the different types of *pocket* Cameras now being offered in the market.

The widespread popularity of photography and the keen appreciation of its many pleasures has opened out a new field.

The serious worker has no doubt discovered the importance of taking a camera with him on *all* favourable occasions, and as the larger forms of Cameras are indisputably bulky, the small instrument has entered into the outfit as being quite essential.

Even in business hours these tiny Cameras are felt to be a necessity, and many are the "snaps" of street scenes, sunsets, topical and interesting subjects, which have been secured only on account of having the Camera in a convenient form ready and always at hand.

Again, there are very many who consider the trouble of carrying a box form Camera (which, though it may be light, yet, at the same time, is bulky) a very serious detriment to the indulgence of the hobby of photography, and to these perhaps more particularly than any other workers, the real *pocket* Camera will appeal.

To the traveller and explorer the Camera which is portable and yet efficient is looked upon as the most useful advance in photography, and is included in every outfit as one of the most important items.

The demand during the last two seasons has gradually developed, and it is perhaps quite safe to say that *pocket* Cameras are now more in favour than any other type.

Finally, we have every confidence in asserting that the "'N. & G.' Sibyl" pocket Camera holds the premier position amongst tiny Cameras for efficiency and reliability.

QUALITY AND QUANTITY.

BY REV. F. C. LAMBERT, M.A., F.R.P.S.

One of the very common mistakes made by photographers of all ages is thinking that if a thing is small it does not very much matter of what it is made, or that the workmanship matters much one way or the other. "It is only quite a small camera" is often held to imply that the result in any case cannot be of much use or interest, and, therefore, any sort of a lens, shutter, dark slide or plate will do. But if we take the case of, let us say, a watch, pocket aneroid, or other instrument of precision made especially small and compact for the convenience of portability, we see at once that the smaller it is, the more important is the need for the best material and workmanship, so that its errors may be reduced to a minimum. Surely then, the same applies to a small camera if the user's aim is that of securing the best results. In these days, when enlarged pictures of such size as 12×10 or 15×12 are so much in vogue, everyone who knows the very ABC of enlarging knows that the smaller the negative, the better should be its quality both of definition and gradation. The former implies a high-class lens, reliable shutter, accurately adjusted focussing scale, rigidity, ease and rapidity of adjustment of the various parts, and so on, and, of course, a thoroughly reliable plate or film.

These points have all been forced upon my attention in the spring and summer months of last year—though summer temperature was chiefly conspicuous by its absence—when from time to time I was able to carry about with me a small edition ($3\frac{1}{2} \times 2\frac{1}{2}$) of a "Sibyl," which was times without number a source of wonderment and delight at its excellence of workmanship in every respect. An instrument of this kind makes one wish to offer a word of admiring congratulation to every one of the numerous thinkers and workers who have, in peaceful conspiracy, combined in producing such an all-round creditable result. It has more than once reminded me of an old-fashioned West Riding saying: "Little, but good."
F.C.L.

From "The Amateur Photographer,"

February 22nd, 1910.

HIGH-CLASS QUALITY IN REFLEX **AND OTHER CAMERAS.**

The tendency of the present time is unquestionably in the direction of hand rather than stand Camera work, and as the race in competition is continually getting keener, it becomes more and more important to pay close attention to every factor which goes to the making of what we all regard as our ideal negative for enlarging. This means that not only shall the lens be of first-class quality, but also that the various movements (rising front, focussing arrangements, shutter adjustment, etc.) shall be under the quick and sure control of the operator. Still further, it is essential that such movements shall not only be controllable, but shall be as accurate as human skill can make them.

This means time and highly skilled labour, which, in turn, implies cost. Anyone who has handled the high-class Reflex and other Cameras recently introduced by Messrs. Newman & Guardia will readily see that while such instruments are not low priced, yet they are not dear, for the simple reason that they exemplify a high-water mark both in quality of material and ingenuity of design, and such a delicacy and accuracy of adjustment that it makes the handling of them a pleasure in itself.

WHAT USERS **OF "N. & G." CAMERAS SAY.**

WEST EALING.

I have much pleasure in informing you that my "N. & G." Reflex Camera continues to give me the greatest satisfaction, and to render me invaluable aid in my work.

As I generally have to expose several hundred plates every year in connection with my biological investigations, often under the most trying and difficult conditions, any Camera that I work with has its reliability pretty severely tested.

Therefore, it gives me great pleasure to be able to tell you that my "N. & G." Reflex Camera has never once disappointed or failed me at a critical moment, in the exacting requirements of my scientific work.

F. MARTIN DUNCAN.

What Users of "N. & G." Cameras say—continued.

MOMBASA.

A few lines to say your Cameras are giving every satisfaction and I have some exceedingly good quality negatives.

NEWMAN EXPEDITION. 1909.

WYLYE, S.O., WILTS.

The Camera arrived safely, with which I am very pleased. The more I examine the more I like it.

A. NEWALL.

COLCHESTER.

I enclose half a dozen photographs taken with your L.F. Reflex, which was far ahead of any other type in getting "certainties."

The dull weather and lateness of performances necessitated the use of the largest possible aperture, while it was equally necessary to get sufficient depth of focus to secure sharp definition of as many figures as possible.

Your Camera permitted the adjustment to a nicety, and in all the rush and scramble there was never a hitch.

F. C. CLARKSON.

HAMPSTEAD.

In reference to the $\frac{1}{2}$ -plate lantern slide reducer you supplied me, through the Westminster Exchange, I should like to say that I consider the apparatus simply perfection in accuracy.

My first trial was to make a slide on one plate and picture frame on another, the two being bound up face to face, and owing to the dead accuracy of the reducer, the result is absolute registration. The workmanship is of the highest perfection.

P. M. WILLIAMS.

AUCKLAND.

I am pleased to state that the $\frac{1}{4}$ -plate "Nydia" Hand Camera, which I procured from Mr. Walond of this City, has more than fulfilled my expectations, both as regards the quality of the workmanship and general design, which, owing to its strength and lightness, is admirably adapted for rough trips through the unsettled part of this country.

B. C. MOODIE.

What Users of "N. & G." Cameras say—*continued.*

JOHANNESBURG.

I used your make of Camera with excellent results. The Camera and attachments are all in splendid order.

T. BRITTAİN.

EDINBURGH.

I am greatly pleased with the $\frac{1}{4}$ -plate "Sibyl De Luxe" which I recently got from you; it is splendidly made and fitted; the lever focussing for both distances is novel in design, and I consider an improvement on the old system; the attachment of a properly scaled distance finder is certainly an aid.

By a simple method double extension can be, at once, obtained, when fully extended and the Camera is perfectly rigid.

The scaled rise of both ways on the view finder and Camera is of great assistance. The Camera is technically perfect, it can be carried in the pocket and is ready for use immediately.

W. J. CROALL.

WHERE QUALITY TELLS.

Copy of Letter received from Sir Ernest Shackleton.

WESTCLIFF-ON-SEA.

20th October, 1903.

I have much pleasure in giving you an account of the behaviour of the Camera I purchased from you before leaving with the National Antarctic Expedition. I used it throughout that Expedition without finding a single fault, and it has been travelling on sledges for over a hundred and fifteen days, including one journey of ninety-four days during which the farthest South point yet reached by man was attained. The photograph taken with your Camera at the most southerly point appeared in the "Illustrated London News." The plates supplied by you, which were put in the Camera on the 2nd of November last and not developed until the 20th February this year, were excellent, despite the fact that the Camera and plates underwent changes of temperature ranging from 57 degrees F. to 30 degrees F. This Camera was taken on the southern journey, though heavier than the others, because it was most important to secure good results. As you are aware, the work was so excellent that other members of the Expedition have sent orders home for similar ones. During the whole of this time the results have been uniformly so successful that I am only too pleased to write this letter, and you may make whatever use you like of the same.

Ernest H. Shackleton

The Choice of Apparatus.

The various Essentials of Different Models.

Vest Pocket Cameras.

THIS type of Camera is suitable for all kinds of record work, and is especially adapted for convenience and portability when a larger Camera would of necessity have to be left behind.

It is important that a Camera sufficiently small to be carried in the vest pocket should be of high quality manufacture.

The need for small Cameras has been met by the introduction of various excellent little models, but the following points are essential if the instrument is to produce negatives suitable for enlargement, which is in the majority of cases the ultimate desire.

The Lens should be of the very highest quality, giving that exquisite definition so necessary for producing negatives sufficiently crisp for enlarging purposes. The body should be of metal construction carefully fitted, and the necessary adjustments as little complicated as possible. The Shutter should be efficient, but a short range of speeds can be considered to be sufficient.

Of this type of Camera we recommend:—

The $3\frac{1}{2} \times 2\frac{1}{2}$ "N. & G." "Sibyl" models (see pages 28-39).

The "Blocknote" model (see pages 68-69).

Pocket Folding Cameras

THIS type of Camera, in the higher quality models, is suitable for all kinds of record work, and as in the case of the Vest Pocket Cameras, especially adapted for convenience and portability. Recent advantages in manufacture has made it possible to obtain instruments in this form capable of producing results sufficiently good to satisfy the most serious worker.

The Camera in the smaller sizes, i.e., to take a plate $3\frac{1}{2} \times 2\frac{1}{2}$, should be sufficiently small to be carried conveniently in an ordinary pocket. The larger $\frac{1}{4}$ -plate sizes should also be sufficiently compact to be carried without inconvenience.

The essential points to be considered in choosing a Pocket Folding Camera are:—

Absolute rigidity of the instrument when set up.

The dimensions should have been reduced to a minimum without sacrificing any essential points, which would complete efficiency.

It should be provided with Lenses of first quality only, so that negatives would bear enlargement to any size within reason.

The Shutter should work accurately and a "time" movement should be permissible.

A focussing scale should be provided, which must be accurate, and a "Depth of Field" Index is a distinctly useful addition.

Those models constructed entirely of metal are possibly the best by reason of the fact that the dimensions can be reduced to a minimum.

Of this type of Camera we recommend:—

All "Sibyl" models both for $3\frac{1}{2} \times 2\frac{1}{2}$ plate, and $\frac{1}{4}$ -plate.

The Choice of Apparatus.

The various Essentials of Different Models.

Self-contained Folding Cameras.

THIS type of Camera cannot be referred to in a general sense, as it specially represents one of the earliest models manufactured by Newman & Guardia, Ltd.

The "Nydia" is an old favourite which has won a world-wide reputation as the acme of lightness combined with the highest efficiency.

It is specially suited to cyclists, as it is portable, self-contained, and is the acme of lightness combined with the higher efficiency. It differs from all other Folding Cameras by virtue of its careful design, and not at the sacrifice either of the quality of its parts or of the rigidity and reliability of the whole.

The workmanship and finish of every detail are fully up to the "N. & G." standard, the low price for so complete an instrument being due solely to the use of special machinery for many of its parts.

Interesting to Travellers, etc. The "Nydia" Camera can be fitted with a special "Premo" Film Pack Adapter for use with the renowned "Premo" Film Packs.

Of this type of Camera we recommend:—

The "Nydia" Camera, $\frac{1}{4}$ -plate, 5 x 4 plate, $\frac{1}{2}$ -plate.

Box Form Cameras.

THIS type of Camera is suitable for universal and special requirements, and for Hand and Tripod work.

In this description of Camera we may expect an apparatus always ready for use, a favourite with all serious workers, on account of its construction and easy manipulation.

In many models of this description a double extension is available, permitting the use of the single combination of the Lens or of three or more foci, when desired.

The construction of the body should be of the very best workmanship to be prepared for use in the tropics or other trying climates, if desired. The instrument when closed should be exactly at "Infinity" for the normal focus of the Lens. A Rising Front allowing quarter of the length and one-third the width of the plate should be provided.

A distinctly useful feature with "N. & G." instruments is that there are no outside projections.

Finders showing the accurate angle of view, both for the single and double extension of the Lenses used, Levels for both horizontal and vertical, bushes for both ways of the plate for use with the Tripod, Pneumatic Release, etc.

Of this type of Camera we recommend:—

"N. & G." Universal "De Luxe" (see page 51).

"N. & G." Universal B (see pages 54-58).

"N. & G." Special B (see pages 54-58).

The Choice of Apparatus.

The various Essentials of Different Models.

Reflex Cameras.

THIS type of Camera is suitable for amateurs, journalists, and portrait photographers, naturalists, artists and travellers, and high speed workers of every description, especially where accurate focussing is all-important.

Reflex Cameras should have adjustments which will ensure dead accuracy of focus. Perhaps it is well to state definitely that the principle of the working of a Reflex Camera is necessarily a little complicated, and it is, therefore, advisable to be prepared to pay for best work. The "N. & G." instruments receive very special care in the course of manufacture, and a very great deal of hand-work by experts.

In design the difficulty which has to be overcome is the Shutter working in unison with the reflecting mirror, the movement having to be instantaneous and without causing vibration or shock to the instrument.

The Lenses should be first quality and the models chosen which will take Lenses of normal focus, also large aperture and Telephoto Lenses when required. The "N. & G." Quick-change Adapter should be fitted for convenience and ease in operation.

The Reflector Finder should show the full area of the picture, both horizontally and vertically, at the same time, and the Screen correctly marked to prevent confusion.

The dimensions and weight of the apparatus is important, but avoid those which are reduced to too fine a minimum in weight and of too light construction.

The best type is necessarily a little heavy to ensure sound construction and smooth working. Finally it is important that the baseboard or front when fully extended for use with the single combination should be absolutely rigid. A rotating back is preferable to a detachable reversing back. Of this type of Camera we recommend:—

"N. & C." Square Reflector Camera (see pages 43-48).

"N. & C." Long Focus Reflex Camera (see pages 49 and 50).

Folding Cameras.

THIS type of Camera is suitable for general purposes, artists, press photographers, etc.

The principle of Folding Cameras is distinctly a good one, as it provides instruments with various kinds of movements, in a portable form, and if well constructed of high quality manufacture, is as useful as almost any type.

To meet the growing demand of such a Camera, we have introduced our first quality "N. & G." manufacture, and duly considered the requirements of the serious worker, and have now pleasure in offering a model which can safely be accepted as the very finest of its kind. The Trellis Folding Camera is arranged to take either Focal Plane or between Lens Shutters, or both, and is suitable for Wide Angle or Long Focus and Telephoto work, and can, therefore, be considered to be of a universal type.

Of this type of Camera we recommend:—

"N. & C." Trellis Camera (see page 61).

The "Palms" Camera (see page 71).

The "Panros" Camera (see page 65).

The "Coerz Anchutz" Camera (see page 70).

The Choice of Apparatus.

The various Essentials of Different Models.

Stereoscopic Cameras.

SUITABLE for those interested in stereoscopic work, certainly one of the most interesting branches of Photography.

Little need be said about this type of Camera, but it is distinctly important that the Lenses are correctly paired and are provided with the necessary movements for accurate focussing.

The same remarks applying to box form and folding Cameras are important to Stereoscopic Cameras. At the same time it may be useful to suggest that the Camera should be available for Panoramic or Stereoscopic pictures at will; that is to say, the two Stereoscopic Lenses should be easily removed, and a front carrying a Lens with suitable focus substituted to cover the full plate.

Of this type of Camera we recommend:—

"N. & G." Universal Stereo Camera (see page 62).

"Nydia" Stereoscopic Camera (see page 42).

"Palmos" Stereoscopic Camera (see page 71).

"Blocknote" Stereoscopic Camera (see page 68).

Special Cameras.

THE term "Special Cameras" is meant to imply those instruments which are made to special order, either of the standard type with special additions or of distinctive design.

Necessarily this type of Camera is expensive on account of design and quite special work having to be carried out independently and under the supervision of experts.

Newman & Guardia, Ltd., are always prepared to make special apparatus according to requirements, and have been particularly successful in the past with various models for well-known scientists, explorers, and others, but a standard type of "N. & G." instruments, with individual ideas and improvements added, is strongly recommended in favour of those of personal or distinctive design.

In our experimental department various new models are always in the course of design and construction, and suggestions or advice are welcomed from any of our "N. & G." users.

Outfits for Scientific Expeditions, Explorers, Travellers, &c.

The success that has attended our Expedition Outfits during the last few years has now led us to open a special department for this work.

We are now prepared to supply full equipments for any specified purpose to Scientific Expeditions, Explorers, or Travellers, on whatever scale required. We have a long and varied experience in this work, and intending Travellers can place their orders in our hands with every confidence.

Special Apparatus made to Customer's own specifications, or designed and constructed according to requirements.

Cinematograph Apparatus.

We supply complete Cinematograph apparatus outfits for the use of travellers and explorers for taking animated pictures.

These outfits are complete in every detail, and a speciality is made of advising and supplying everything necessary for short or prolonged tours.

Travelling Cases are specially designed to make it practically impossible for any separate item contained therein to get damaged even whilst travelling under most severe conditions.

The Camera supplied is the most perfect apparatus made, and is thoroughly tested and examined in our Works by an expert, before delivery.

For the use of Travellers and Explorers to countries where climatic troubles exist, we hind the Camera body with metal as a protection against heat or damp.

A special Tripod stand, with revolving and tilting top, made in oak is supplied, and all metal parts where possible are made of magnalium to reduce the weight.

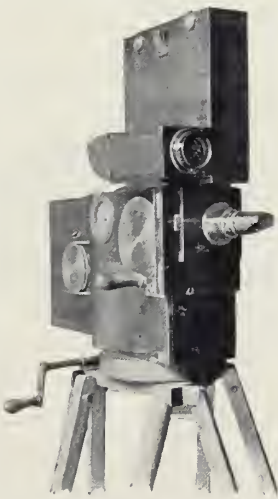
In every instance sound construction is carefully considered, but weight is reduced to a minimum consistent with strength and rigidity.

Complete developing outfits suitable for travellers or for permanent installations can be supplied.

Further, we make a speciality of developing customers' films and making positives from them, the work being done by expert operators *only*. The best film stock only is used, so that we are able to guarantee the finest possible results.

Complete Cinematograph Projection outfits, including Projector, Lantern with Condenser, Slide Carrier and Cut-Off, Illuminator (either Electric or Oxy-hydrogen), Fire-proof Film Boxes, Geared Rewinder, Folding Stand, &c.; also strong Travelling Cases to take the entire outfit, with partitions to prevent damage during transit.

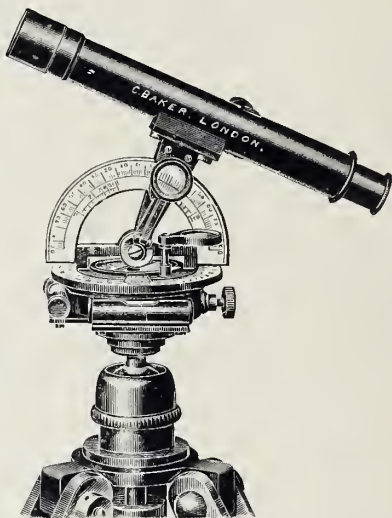
Prices and full particulars on application.



Gaumont and "N. & G."
Cameras.

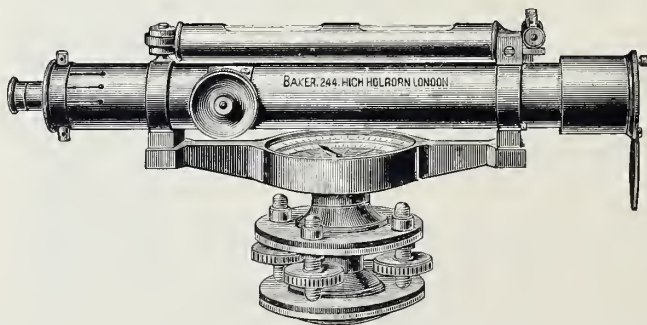
Explorer's Theodolite.

The H circle and V arc are both divided on platinoid (untarnishable) to single degrees, the former reading by vernier and microscope to 5 minutes. Vertical arc reading from zenith to horizon, and having scale of gradients 1 in 1 to 1 in 10. Two levels mounted in horizontal limb. Telescope is provided with achromatic object glass $4\frac{1}{2}$ in. focus, aperture $\frac{1}{2}$ in. Rack and pinion adjustment and inverting eyepiece. Glass disc diaphragm ruled with V and H lines. Circular pattern compass needle mounted on agate centre; platinoid dial graduated to single degrees. Ball and socket head.



Complete in Mahogany Case,
with Tripod, £10 10s.

Surveying Levels.

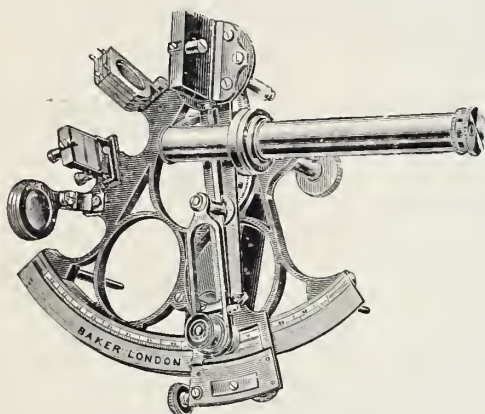


Fitted with two graduated Levels. Telescope fitted with achromatic object glass, rack and pinion focussing adjustment; sunshade with sights graduated to single degrees; pivoted shutter; also high and low power eyepieces. Diaphragm either web, glass ruling or points. Circular-form compass, engine divided to 30 minutes, figured at every 10° . Needle mounted on agate centre and reading microscope. Three or four screw heads, the former with locking plate.

Complete in mahogany case, with round pattern Tripod stand:—

No. 10	...	12 inch	£12 10 0		No. 11	...	14 inch	£14 0 0
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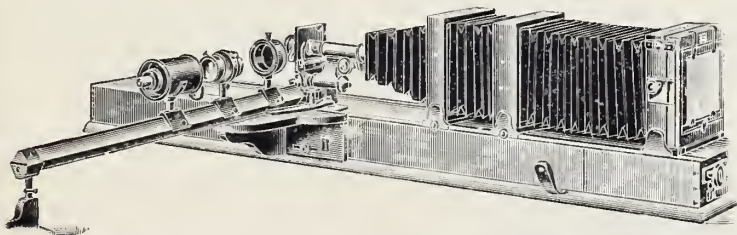
Minor Instruments for the Determination of Vertical Angles. NAUTICAL SEXTANTS.



Admiralty Pattern,
arc mounted on three-ring
frame divided on silver 5°
to zero and zero to 120°
reading by vernier and
microscope with tangent
screw adjustment to 10
seconds; with day and
night telescopes with ad-
justment for aligning with
horizon glass, the former
of which is provided with
two webbed Huygenian
oculars; pin-hole sight for
use without telescopes,
the usual tints, four for
index and three for hori-
zon glass in hinged
mounts; adjusting pin,
etc., the whole in polished
mahogany case.

1. $6\frac{1}{2}$ in. radius	...	...	...	...	£8 8 0
2. 8 in. radius	...	...	...	...	9 10 0
Kew certificate, Class "A," extra ..	...	...	...	...	0 10 6

ROSS' New Photo-Micrographic Apparatus. With Swinging Bar to carry Illuminating Apparatus.



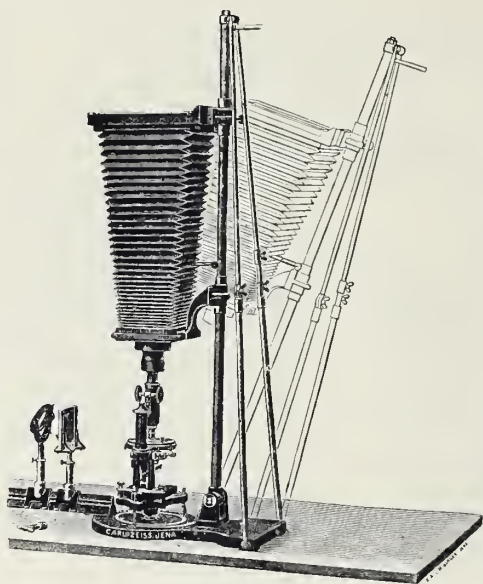
This Apparatus for the production of photographs of microscopic objects allows of practically unlimited range of magnification.

The bar carrying the illuminating system is of square section, light, and perfectly rigid. When used in the axis of Camera and Microscope, one end is attached by means of a clamping screw to, and takes a long bearing on, a plate sliding along the top of base, and the other end receives support from a foot with ball castors intended to rest on table, and provided with adjustment to regulate the height.

The whole Apparatus is made from thoroughly seasoned Mahogany, with Brass and Aluminium Fittings, and is of the finest possible workmanship and finish throughout.

Photo-Micrographic Camera, as illustrated with Bar, but without		
Apparatus	... .. Code Word—Micrograph	£26 0 0
Nernst Lamp, with Iris Diaphragm and Light Diffuser	...	2 10 0
Compound Condenser	...	2 10 0
Iris Diaphragm...	...	1 10 0
Cooling Cell	...	1 15 0
Bi-Convex Lens in Holder	...	1 0 0

Prices for Apparatus include Mounting suitable for use on Bar.



Zeiss New Vertical and Horizontal PHOTO- MICROGRAPHIC CAMERA.

This instrument, in which the Camera can be used in either a Horizontal or Vertical position, can also be used for Photographing larger specimens without the aid of the Microscope. The unique construction of this apparatus enables the centering of the Camera and Microscope to be effected with quickness and certainty.

Horizontal and Vertical Camera, with a double dark slide, 18 x 24 c/m., and 2 front boards, etc.	£	s.	d.
Leach Plate Carriers, for English $\frac{1}{2}$ -plate and $\frac{1}{4}$ -plate sizes	0	6	0
Aplanatic Magnifier X6	1	6	0
Optical Bench	1	0	0
Gractzin Lamp on saddle stand, with metal chimney	1	6	0
Condensing Lens, with Iris diaphragm	1	16	0
Light Filter Carrier, with two troughs	1	4	0

£15 18 0

Photomicrographic Apparatus.

Complete with Microscope.

Projection Table, with optical bench on cast iron stand	£	s.	d.
Automatic Feeding Arc Lamp, 20 amperes with casing	11	5	0
Kohler Condensing Lenses	3	7	0
Diaphragm for Lamp body	0	2	0
Water Chamber. Size I.	2	10	0
Iris Diaphragm, with Micrometer screw	2	6	0
Light Filter Stand, with two troughs	1	4	0
Sole Plate for Microscope	1	12	0
Microscope Stand IC, with large mechanical stage and Aplanatic Condenser N.A. 1.40	22	10	0
Achromatic objective aa	1	7	0
Ditto Ditto AA	1	10	0
Ditto Ditto DD	2	10	0
Ditto Ditto $\frac{1}{2}$ th in. Oil Immersion	6	5	0
Projection Eyepieces, Nos. 2 and 4 at 40/- each	4	0	0
Compensating Eyepieces, 6 and 12	2	10	0
Huygenian Eyepiece, 4	0	6	0
Tube Slide	0	8	0
Four Objective Slides at 8/- each	1	12	0
Case for Objective Slides and Objectives	0	15	0
Large Photomicrographic Camera	15	10	0
Focussing Glass X6	1	6	0

£87 15 0

“N. & G.”

RELIABILITY.

“A little while ago we called attention to the unreliability of the Speeds, as marked on the Indexes, of the majority of the Shutters fitted to Hand Cameras. In our last issue we reproduced an article by Dr. Hans Lehmann, of Munich, in the ‘Instrumentenkunde,’ on the Speed-measurement of Shutters, and the method of testing adopted by the author.

“The paper will be found on page 310 ante, and it proves the discrepancies there are between the asserted Speeds and the actual ones even in the Shutters of the best Makers.

“The table appended to Dr. Lehmann’s paper is interesting as showing the wide difference there is between the Index numbers and the actual Speeds of some of the most renowned Makers in Germany, America, and England; and it is satisfactory to learn that the palm is taken by an English one—**Newman & Guardia’s**. Of this the author speaks very highly, which, he says, ‘had been in constant use for two years, and the figures given show that it **was the only one of those measured that worked to its indicated Speeds.**’”—*British Journal of Photography*.

The “**N. & G.**” Universal and De Luxe Cameras are Instruments fitted with the Shutter approved by Dr. Lehmann, and they are equally accurate in every other respect.

SYNOPSIS

Showing the Respective Features of Four Types of Cameras made by Newman & Guardia, Ltd., London.

TYPE OF CAMERA.	"N. & G." "UNIVERSAL."	"N. & G." "DE LUXE."	"N. & G." "REFLEX."	"N. & G." "SIBYL" (POCKET.)
Special Features	The Highest Efficiency of any Camera, Ever Ready and available for All Kinds of Work.	The Efficiency of the "N. & G." "Universal" with Reduced Weight and Additional Refinements.	The Reflex Principle in its most Perfect Form, in Combination with Lightness and Easy Manipulation.	The Best Camera for portability, combined with efficiency.
Taking Plates or Films in	Boxes, Double Slides.	Boxes, Double Slides, Single Slides, Film Packs.	Boxes, Double Slides, Single Slides, Film Packs.	Boxes, Single Slides, Film Packs.
Body	Closed Box-form.	Open Box-form.	Open Box-form.	Folding Body.
Projections	None.	None.	None.	None.
Size of $\frac{1}{4}$-Plate	$9\frac{1}{2} \times 5\frac{1}{2} \times 5\frac{3}{4}$	$6\frac{3}{4} \times 5\frac{1}{2} \times 5\frac{1}{4}$	$7 \times 6 \times 6\frac{3}{4}$	$5\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{16}$
Weight of $\frac{1}{4}$-Plate	$4\frac{1}{2}$ lb.	$2\frac{3}{4}$ lb.	$4\frac{1}{2}$ lb.	$20\frac{1}{4}$ ozs.
Lenses Fitted, other makes to order	"Double Protar."	"Double Protar."	"Double Protar."	Zeiss "Tessar."
Diaphragm	Iris, engraved for 2 foci.	Iris, engraved for 2 foci.	Iris, engraved for 2 foci.	Iris.
Single Combination	Quick-changing Flange.	Quick-changing Flange.	Quick-changing Flange.	—
Adaptability to other Lenses	Any Lens.	—	Any Lens.	—
Shutter	"Standard" Self-capped, High Efficiency.	New Self-capped, High Efficiency.	Variable Lever and Pneumatic, Hermetically Closed.	Self-capped, High Efficiency.
Regulation	Pneumatic, Hermetically Closed.	Variable Lever and Pneumatic, Hermetically Closed.	Detachable Double Blind, Focal-Plane.	Pneumatic.
Range of Speed	$\frac{1}{2}$ to $\frac{1}{100}$ th.	1 to $\frac{1}{200}$ th.	By width of Slot, Set from Outside.	$\frac{1}{2}$ to $\frac{1}{100}$ th.
Release	Finger and Pneumatic.	Finger and Pneumatic.	Finger and Antinous.	Finger (Antinous extra.)
Focussing Scales	Two.	Two.	Reflector.	One.
Depth of Field Index	(Extra.)	For both foci.	—	One.
Finders	Two, Real Image, marked for 2 foci.	One, Real image showing 2 foci, both Vertical and Horizontal.	Square Reflector showing full area of Picture, Vertical and Horizontal.	Direct Vision.
T-Levels	Two.	One for both Pictures	One, for both Pictures.	(Level extra).

	"N. & G." "UNIVERSAL."	"N. & G." "DE LUXE."	"N. & G." "REFLEX."	"N. & G." SIBYL." (POCKET.)
Focussing by ...	Central Rack with Sunk Knob.	Central Rack with Sunk Knob.	Rack with Extending Knob.	Lever.
Extension ...	Double, by Racking out.	By Rack and Slide.	By Rack and Slide.	—
Rotating Back ...	—	For Vertical and Horizontal Pictures.	For Vertical and Horizontal Pictures.	—
Rising Front ...	Vertical and Horizontal Sliding.	Vertical and Horizontal Screw.	Vertical and Horizontal Screw.	Vertical.
Marked Finders ...	(Marking extra).	Marked for both foci.	Reflector shows Rise.	—
Tripod Bushes ...	Two.	One, for Vertical and Horizontal.	One, for Vertical and Horizontal.	Special Tripod Board, extra).
Straps ...	Leather, with Swivels.	Leather, with Swivels.	Broad Canvas Webbing, with Swivels.	—
Original Lens Mount ...	Included.	Included.	Included.	(Extra).
PRICE of $\frac{1}{4}$-Plate ...	£22 10 0	£30 0 0	£35 0 0	£14 14 0
Leather Cases ...	Extra, Velvet-lined.	Extra, Leather-lined.	Extra, Velvet-lined.	—
Focussing Screen ...	Contained in Dark Chamber.	Loose.	Loose.	Loose.

OPTIONAL CHANGING DEVICES.

Changing-Box ...	Pattern A.	Special Reflex.	Special Reflex.	Special "Sibyl."
Double Dark Slides ...	Solid, Ebonite Shutters.	Solid Ebonite Shutters.	Solid Ebonite Shutters.	—
Single Metal Slides ...	—	Quick-changing.	Quick-changing.	Quick-changing.
Film Pack Adapter ...	—	Film Pack Adapter.	Film Pack Adapter.	Film Pack Adapter.

ADAPTABLE FOR SPECIAL WORK.

For Wide Angle Work...	With Extra Lens and Front.	With Extra Lens and Front.	—	—
Telephotography ...	With Special Tele-Attachment and Extra Front.	With Special Tele. Attachment and Extra Front.	With Special Tele. Attachment and Simple Adapter.	With Special Tele-Attachment and Simple Adapter.
Copying Full Size ...	By Racking Out.	By Racking and Using Extension Slide.	By Racking and Using Extension Slide.	—
Portraits ...	Any Size.	Any Size.	Any Size.	Any Size.
Colour Photography ...	With Screens, or Special Repeating Back.	With Screens, or Special Repeating Back.	—	—

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SIZES, WEIGHTS, AND PRICES

:: OF THE ::

“N. & G.’ SIBYL” POCKET CAMERA

(10 Models to Select from).

Model No.	Name and Description of Camera.	Measurement when Closed. Inches.	Approximate Weight of Camera.	Prices, Complete.
1	“DE LUXE.” “Sibyl” $\frac{1}{4}$ plate, fitted with Zeiss (Carl Zeiss, Jena) Series VII.A., No. 4 “Double Protar” giving 2 foci 5 inch at f/6.3 and 9 inch at f/12.5. Complete with Six Slides in case.	$6 \times 4\frac{1}{4} \times 1\frac{5}{8}$	26 oz.	22-10-0 21-0-0
2A	“SPECIAL.” “Sibyl” $\frac{1}{4}$ plate, fitted with Goerz Series, 1B “Celor” f/4.8, No. 0, 5 inch focus. Complete with Six Slides in Case.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{1}{2}$	20 $\frac{1}{2}$ oz.	16 16 0
2B	“SPECIAL.” “Sibyl” $\frac{1}{4}$ plate, fitted with Zeiss “Tessar” f/4.5, Series 1c, No. 15, 5 $\frac{1}{2}$ inch focus. Complete with Six Slides in Case.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{1}{2}$	20 $\frac{1}{2}$ oz.	17 17 0
3	“TESSAR.” “Sibyl” $\frac{1}{4}$ plate, fitted with Zeiss “Tessar” f/6.3, 5 $\frac{3}{8}$ inch focus. Complete with Six Slides in Case.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{7}{16}$	20 $\frac{1}{4}$ oz.	14 14 0
4	“COOKE.” “Sibyl” $\frac{1}{4}$ plate, fitted with “Cooke” Lens f/6.5, 5 $\frac{1}{2}$ inch focus. Complete with Six Slides in Case.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{7}{16}$	19 $\frac{3}{4}$ oz.	14 0 0
5	“TESSAR.” “Sibyl” $3\frac{1}{2} \times 2\frac{1}{2}$ plate, fitted with Zeiss “Tessar” f/6.3, 4 $\frac{3}{8}$ inch focus. Complete with Six Slides in Case.	$5\frac{1}{16} \times 3\frac{9}{16} \times 1\frac{3}{16}$	13 $\frac{3}{4}$ oz.	10 10 0
6	“COOKE.” “Sibyl” $3\frac{1}{2} \times 2\frac{1}{2}$ plate, fitted with “Cooke” Lens f/6.5, 4.4 inch focus. Complete with Six Slides in Case.	$5\frac{1}{16} \times 3\frac{9}{16} \times 1\frac{3}{16}$	13 $\frac{3}{4}$ oz.	9 9 0
7	“SPECIAL.” “Sibyl” $3\frac{1}{2} \times 2\frac{1}{2}$ plate, fitted with Zeiss “Tessar” Lens f/4.5, 4.4 inch focus. Complete with Six Slides in Case.	$5\frac{1}{16} \times 3\frac{9}{16} \times 1\frac{3}{8}$	16 $\frac{1}{4}$ oz.	13 13 0
8	“TESSAR IMPERIAL.” $\frac{1}{4}$ plate, fitted with Zeiss “Tessar” f/6.3, 5 $\frac{3}{8}$ inch focus. Rise both ways of plate and special ‘N. & G.’ Reflector Finder. Complete with Six Sildes.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{7}{16}$	20 $\frac{1}{4}$ oz.	16 16 0
9	“COOKE IMPERIAL.” $\frac{1}{4}$ plate, fitted with “Cooke” Lens f/6.5, 5 $\frac{1}{2}$ inch focus. Rise both ways of plate and special ‘N. & G.’ Reflector Finder. Complete with Six Slides in Case.	$5\frac{7}{8} \times 4\frac{1}{4} \times 1\frac{7}{16}$	20 $\frac{1}{4}$ oz.	16 0 0



Back Combination (Double Extension).
These Pictures were taken from exactly the same spot.



Complete Lens.
Selected to represent the advantage of being able to use the Back Combination of the Lens in a Pocket Camera.

THE VERY LATEST POCKET CAMERA.

The "Sibyl De Luxe."

MODEL No. 1.

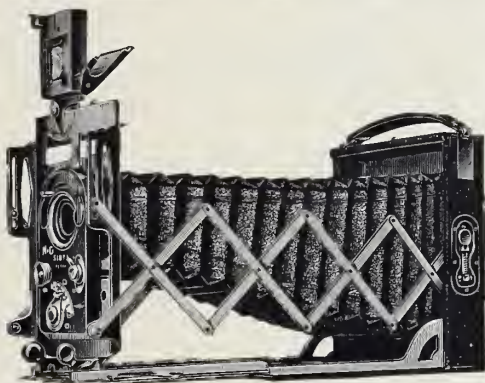


Fig. 1.

Camera showing Double Extension and Rising Front.



Fig. 2.

Camera Open and Tripod Screw in Position.



Fig. 3.

Closed (No Projections).

THE "SIBYL DE LUXE."

$\frac{1}{4}$ -PLATE.

No. 1 MODEL.

DESCRIPTION.

Lenses.—The "Sibyl De Luxe" is fitted with a Zeiss, Series VIIa., No. 4 "Double Protar," with Iris Diaphragm, giving 2 foci: 5-inch at $f/6.3$ and 9-inch at $f/12.5$. This Lens has been selected as the Best, giving the full advantage of the range of extension provided by this Camera.

Shutter.—Entirely new form of "N. & G." Efficient Shutter working between the Lens Combinations. Constructed of Metal throughout, noiseless and quite free from vibration.

Fitted with an Indicator which clearly shows if the Shutter has been set or released. The Speeds given are : $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, and $\frac{1}{100}$ th sec., and are separately measured and regulated by our well-known pneumatic control. "Time" exposures of any duration can also be given. The mechanism is completely boxed in, and well protected from damp and dust.

Plates and Films—Dark Slides.—The Dark Slides are of thin metal and are made, for portability, to hold 1 plate each. The Shutters draw completely out when in use. These Slides have been well tested and proved quite satisfactory. The method of fitting to the Camera is entirely new, and by it the Slides are easily and expeditiously changed between exposures. Six Dark Slides in a stiff Leather Case, which is of less size outside than the Camera, are supplied with each Instrument. Film Pack Adapters for the use of Daylight loading "Premo" Film-Packs, interchangeable with the single metal dark slides, also "N. & G." Charging Boxes for 8 or 12 Plates, or 12 or 20 Flat Films can be supplied.

Finder.—The latest “N. & G.” Folding Reflector Finder, specially designed for use with the “Sibyl” models, fitted with an adjustment by which the Rise of Front necessary can be determined, and indicates the true view in all positions of the Rising Front. The direct view type of Finder can also be fitted at a small extra cost.

Rising Front.—Horizontal and Vertical Rising Front is provided, equal to about a quarter of the plate each way.

Double Extension.—The “Sibyl De Luxe” is provided with a simple adjustment allowing the Base-board to be drawn into position immediately, and when set ready is exceptionally rigid.

Focussing.—A Focussing Lever with an Indicator showing scale for the 5-inch and 9-inch extension, and a distinctly useful addition in the form of a Depth of Field Index.

Depth of Field.—Index is shown in clear figures in the centre of the two distance markings, and one is enabled to see at a glance the Near and Far Distances which are sufficiently sharp when the Focussing Scale is set for any given (intermediate) distance, and when using any Diaphragm from $f/6$ to $f/32$.

Tripod Screws.—An unique fitting of importance is the “N. & G.” Tripod Screw, which is let into the body of the Camera, and without projection of any kind, ready in position for immediate use. Two Screws are fitted for use with both Horizontal and Vertical, and a special Tripod Top is supplied as an extra if desired.

Bellows.—The Bellows are of Leather, and are well protected when in use by the lattice-form side-struts of the Camera.

Case, Covering, and Fittings.—The Case or Body of the Instrument is made of drawn Aluminium, and is covered with best black Morocco Leather. When closed, all working parts are thoroughly protected from accidental injury, and the Camera is intended to be carried in the pocket without the use of any protection other than that afforded by the leather with which it is covered—in fact, it may be treated with as little care as a cigar case. All working parts and fittings are of metal, and, although very light, are soundly constructed.

The "SIBYL" SPECIAL.

1-PLATE.

No. 2 MODEL A. & B.

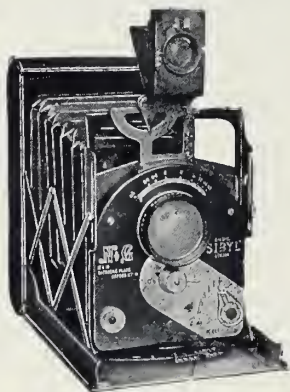


Fig. 4.

SPECIAL "SIBYL" Model No. 2.
(Large Aperture Lens.)

DESCRIPTION.

The "Sibyl" Special has been designed expressly to take the large Aperture Lenses, suitable for Instantaneous High-Speed Work, Portraits, Groups, &c.

Lens.—The "Sibyl" Special No. 2A is fitted with the Goerz Double Anastigmat Series 1B "Celor" $f/4.8$, No. 0, 5-inch focus, and Iris Diaphragm; and No. 2B with the Zeiss (Carl Zeiss, Jena) "Tessar" $f/4.5$ Series 1C, No. 15, $5\frac{1}{2}$ -inch focus, and Iris Diaphragm.

Shutter.—This Shutter is a combination of the methods we use in our Standard Series of "N. & G." Cameras, and the principle of the "Nydia" Shutter. The blade being of the type of the former, and the remainder of the mechanism that of the latter, the whole forms a Shutter of high efficiency and reliability.

The speeds given are $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$ and $\frac{1}{100}$ th sec., and are separately measured, and regulated by our well known pneumatic control. "Time" exposures of any duration can also be given. The mechanism is completely boxed in, and well protected from damp and dust.

Plates and Films—Dark Slides.—The Dark Slides are of thin metal and are made, for portability, to hold 1 plate each. The Shutters draw completely out when in use. These slides have been well tested, and proved quite satisfactory. The method of fitting to the Camera is entirely new, and by it the Slides are easily and expeditiously changed between exposures. Six Dark Slides in a stiff Leather Case, which is of less size outside than the Camera, are supplied with each instrument. Film Pack

Adapters for the use of Daylight-loading "Premo" Film Packs, interchangeable with the single metal Dark Slides, also "N. & G." Changing Boxes for 8 or 12 plates, or 12 or 20 flat films, can be supplied.

Finder.—The latest specially designed "N. & G." Folding Reflector Finder fitted with an adjustment by which the Rise of Front necessary can be determined, and indicates the true view in all positions of the Rising Front.

One T-level on top of the Finder enables one to adjust the Camera for both vertical and horizontal pictures.

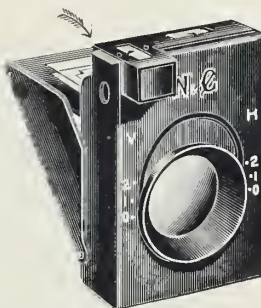


Fig. 5.

THE "N. & G." FOLDING
REFLECTOR FINDER.

Rising Front.—This is provided for the vertical picture, and has a movement equal to $\frac{1}{4}$ the height of the plate. It works in conjunction with the Finder as above stated.

Focussing.—This is effected by a long lever working over a widely extended scale, allowing the figures to be easily and quickly read. A Focussing Screen is supplied.

Bellows.—The Bellows are of Leather, and are well protected when in use by the lattice-form side-struts of the Camera.

Case, Covering, and Fittings.—The Case or Body of the Instrument is made of drawn Aluminium, and is covered with best Morocco Leather. When closed, all working parts are thoroughly protected from accidental injury, and the Camera is intended to be carried in the pocket without the use of any protection other than that afforded by the leather with which it is covered—in fact, it may be treated with as little care as a cigar case. All working parts and fittings are of metal, and, although very light, are soundly constructed.

The "SIBYL" SPECIAL.

3 $\frac{1}{2}$ & 2 $\frac{1}{2}$ PLATE.

No. 7 MODEL.

Lens.—The "Sibyl" Special No. 7 is fitted with Zeiss (Carl Zeiss, Jena) "Tessar" $f/4.5$, Series 1C, $4\frac{1}{2}$ -inch focus with Iris Diaphragm.

Fittings, Etc.—Similar in all respects to those contained in Model No. 2.



"SIBYL" OPEN READY FOR WORK.

Models Nos. 5 & 6.



"SIBYL" CLOSED FOR THE POCKET.

THE "Sibyl," "Tessar" & "Cooke"

Models No. 3 and No. 4. $\frac{1}{4}$ -Plate.

DESCRIPTION.

Lenses.—Model No. 3 is fitted with Zeiss "Tessar" Lens, $5\frac{3}{8}$ inch focus, working at $f/6.3$, and Iris Diaphragm; and Model No. 4 is fitted with "Cooke" Lens, $5\frac{1}{2}$ inch focus, working at $f/6.5$.

Finder.—The Finder is of the direct view type, and is provided with a sighting point, by the use of which it is perfectly easy to ascertain to an exact degree the amount of view on the plate. This sighting point is automatically brought into position by opening the Camera. The Finder also indicates the true view in all positions of the Rising Front.

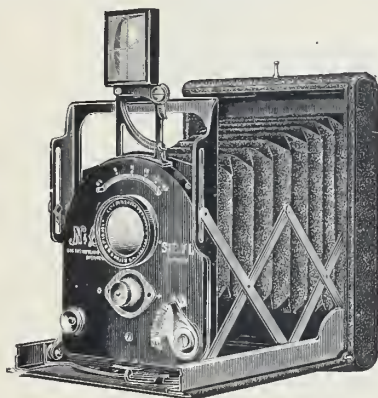


Fig. 7.
"SIBYL" TESSAR No. 3.

Shutter, Dark Slides, Rising Front, Focussing, Bellows, Case, Covering and Fittings.—Similar to Model No. 2.

"Sibyl," "Tessar" & "Cooke"

Models No. 5 and No. 6.

$3\frac{1}{2} \times 2\frac{1}{2}$ ($6\frac{1}{2} \times 9$ cm.) plate.

DESCRIPTION.

Models No. 5 and No. 6 are in every sense real Pocket Cameras, *i.e.*, complete, serviceable, and efficient in a high degree, and can be carried in an ordinary pocket without inconvenience.

Lenses.—Model No. 5 is fitted with Zeiss "Tessar," $4\frac{3}{8}$ in. focus, $f/6.3$, and Iris Diaphragm; and Model No. 6 is fitted with "Cooke" Lens, 4.4 in. focus, working at $f/6.5$, and Iris Diaphragm.



Fig. 8.
Folded for Carrying
in Pocket.

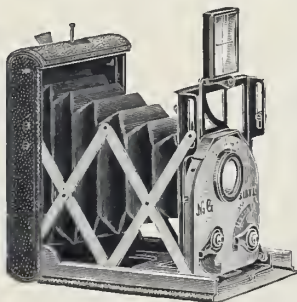


Fig. 9.
Opened Ready for Work.

Shutter, Dark Slides, Finder, Rising Front, Focussing, Bellows, Case, Covering and Fittings.—Similar to Models No. 3 and 4.

The "SIBYL" Imperial.

Models Nos. 8 and 9.

$\frac{1}{4}$ -Plate.

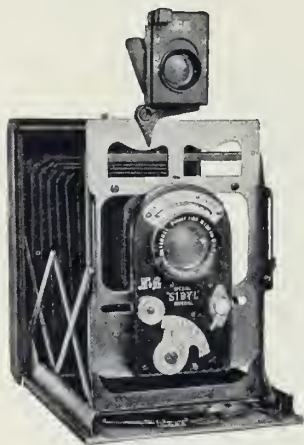


Fig. 10.
IMPERIAL "SIBYL"
Models Nos. 8 and 9.

DESCRIPTION.

The "Sibyl" Imperial is an improved model having a horizontal and vertical rising front and this to the extent of a quarter of the plate each way.

Lens.—*Model No. 8* is fitted with Zeiss (Carl Zeiss, Jena) "Tessar," $5\frac{3}{8}$ inch focus working at $f/6.3$, and Iris Diaphragm, and *Model No. 9* is fitted with "Cooke" Lens, $5\frac{1}{2}$ inch focus working at $f/6.5$, and Iris Diaphragm.

Shutter.—Entirely new form of "N. & G." Efficient Shutter working between the Lens Combinations. Constructed of Metal throughout, noiseless and quite free from vibration.

Fitted with an Indicator which clearly shows if the Shutter has been set or released. The speeds given are: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, and $\frac{1}{100}$ th sec., and are separately measured and regulated by our well-known pneumatic control. "Time" exposures of any duration can also be given. The mechanism is completely boxed in, and well protected from damp and dust.

Finder.—The Finder is specially designed for the "Sibyl" Cameras and is the latest "N. & G." Folding Reflector Finder, fitted with an adjustment by which the rise of front necessary can be determined, and indicates the true view in all positions of the Rising Front. One T-level on top of the Finder enables one to adjust the Camera for both Vertical and Horizontal Pictures.

Rising Front.—Horizontal and Vertical Rising Front is provided, equal to about a quarter of the plate each way.

Focussing.—This is effected by a long lever working over a widely extended scale, allowing the figures to be easily and quickly read. A Focussing Screen is supplied.

Bellows.—The Bellows are of Leather, and are well protected when in use by the lattice-form side-struts of the Camera.

Case, Covering and Fittings.—The Case or Body of the Instrument is made of drawn Aluminium, and is covered with best black Morocco Leather. When closed, all working parts are thoroughly protected from accidental injury, and the Camera is intended to be carried in the pocket without the use of any protection other than that afforded by the leather with which it is covered—in fact, it may be treated with as little care as a cigar case. All working parts and fittings are of metal, and, although very light, are soundly constructed.

Plates & Films— Dark Slides.

—The Dark Slides are of thin metal and are made, for portability, to hold one plate each. The Shutters draw completely out when in use. These slides have been well tested, and proved quite satisfactory. The method of fitting to the Camera is entirely new, and by it the Slides are easily and

expeditiously changed between exposures. Six Dark Slides in a stiff Leather Case, which is of less size outside than the Camera, are supplied with each instrument. Film Pack Adapters for the use of Daylight-loading "Premo" Film Packs, interchangeable with the single metal Dark Slides, also "N. & G." Changing Boxes for 8 or 12 plates, or 12 or 20 Flat Films, can be supplied.



The "SIBYL" IMPERIAL on Tripod Board,
showing Method of Horizontal Rising
Front Movement.

PRICES OF

“Sibyl” Accessories, &c.

	3½ × 2½ Plate.	¼-Plate.
	£ s. d.	£ s. d.
Extra Leather Case, containing 6 Dark Slides, Nos. 7-12	0 11 6	0 15 0
“Sibyl” Changing Box, Form I., for 8 Plates or 8 Films; or Form II., for 12 Cut Films ...	2 5 0	2 5 0
“Sibyl” Changing Box, Form I., for 12 Plates or 12 Films; or Form II., for 20 Cut Films ...	2 7 6 7-5-0 1 10 0	2 7 6 7-4-6 1 15 0
Special “Sibyl” Film Pack Adapter	1 10 0	1 15 0
Extra Dark Slides each	0 1 6	0 1 6
Leather Case (only), for 6 Slides	0 2 9	0 6 0
Focussing Screens, complete with Hoods... ..	0 3 6	0 4 6
„ „ without Hoods (a few left)	0 1 6	0 1 6
„ „ for use with Film Pack Adapter	0 3 6	0 4 6
“N. & G.” Light Filter, complete in Holder, with Pocket Case	0 10 6	0 10 6
Ground Glass (real image) View Finder, com- plete with Levels	0 15 0	0 15 0
Antinous Release for Shutter	0 7 6	0 7 6
Tripod Board, complete with Screw for Tripod Work	0 10 6 7-6	0 10 6 7-6
“N. & G.” Eiffel Stand No. 2A Stand, size, closed, 30¾ × 1½ × 1¾ in.	1 8 6	1 8 6
“N. & G.” Eiffel Stand, No. 2B Stand, size, closed, 30¾ × 2 × 1¾ in.	1 13 6	1 13 6
“N. & G.” Aluminium Stand, in Leather Case...	1 10 0	1 10 0
“N. & G.” Plates Per Dozen	0 1 0	0 1 6
“N. & G.” Plates, Backed... .. „	0 1 3	0 1 9
“N. & G.” H.S. Plates „	0 1 0	0 1 6
Ditto Backed „	To order only 0 1 3	0 1 9
“N. & G.” S.R. Plates „	0 0 9	0 1 0
Ditto Backed „	To order only 0 1 0	0 1 3
“N. & G.” Ortho Plates „	Not stocked	0 1 0
Ditto Backed „	„	0 1 3
Rack and Tank Washer	0 2 6	0 2 6

Prices of "Sibyl" Accessories, &c.—*continued.*

	$3\frac{1}{2} \times 2\frac{1}{2}$ Plate.			$\frac{1}{4}$ -Plate.		
	£	s.	d.	£	s.	d.
Xylonite Trays	0	0	4	0	0	5
„ „ Transparent	Not stocked			0	0	11
„ „ with Lifter	„			0	0	9
Printing out Paper, all makes, 24 pieces ...	0	0	5	—		
„ „ „N. & G." all makes, 36 pieces	—			0	1	0
Printing Frames	0	0	9	0	1	6
Sky Shades	0	7	6	0	7	6
"Standa" Daylight Developing Tanks (for development without a Dark Room), "B" quality, for 6 Plates	0	10	0	0	12	6
Film Packs, Premo, 12 exp.	0	1	8	0	3	0
The New Folding "N. & G." Model A. Enlarger, "Sibyl" $\frac{1}{4}$ -plate	To $\frac{1}{2}$ -Plate.			To $1\frac{1}{4}$ Plate		
	3	15	0	4	5	0
The New Folding "N. & G." Model A. Enlarger, $3\frac{1}{2} \times 2\frac{1}{2}$	3	5	0	3	17	6

Leather Cases of every description made to suit individual requirements.

The "Sibyl" Camera fitted with the "ADON" Telephoto Lens.

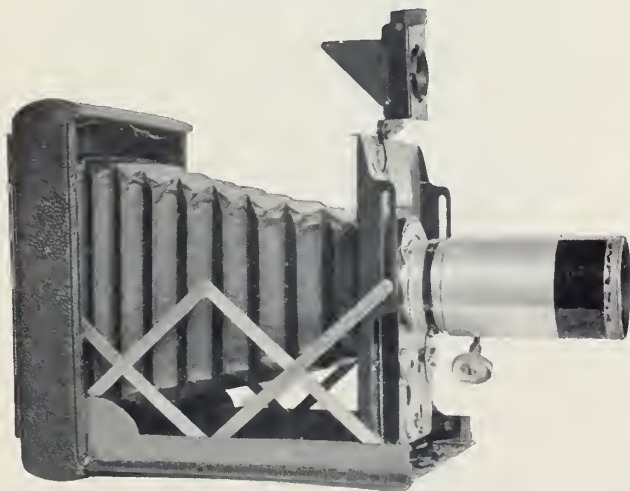
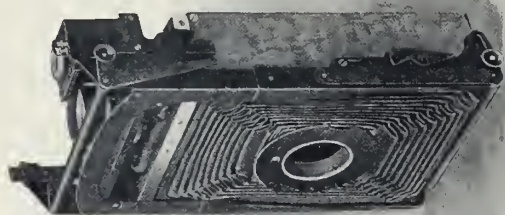


Fig. 11.

PRICE:—"Adon" Telephoto Attachment, including fittings to $\frac{1}{4}$ -Plate "Sibyl" Camera, **£3 15s.**



FOLDED FOR CARRYING IN CASE.



"NYDIA" OPENED, READY FOR WORK.

Fig. 12.

The "Nydia"

Folding Camera.

THE "Nydia" is an old Favourite which has won a world-wide reputation as the Acme of Lightness combined with the Highest Efficiency. It differs from all other folding Cameras in that it is neat and small, *by virtue of its Careful Design*, and not at the sacrifice either of the quality of its parts or the rigidity and reliability of the whole. The Workman-

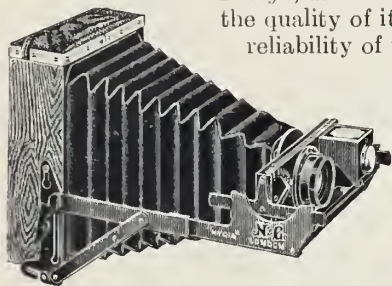


Fig. 13.
Opened ready for Work.

ship and Finish of every detail are fully up to the "N. & G." Standard, the low price, for so complete an Instrument, being due solely to the use of special machinery for many of its parts, and to the ever-increasing numbers which we make from year to year.

The "Nydia" is the smallest Complete Camera made for full $\frac{1}{4}$ or $\frac{1}{2}$ plates.

DESCRIPTION.

Lenses.—The "Nydia" is stocked fitted with three different makes of Lenses, each selected as the best of its type. They have the full normal focus for $\frac{1}{4}$ -plate, $5\frac{1}{2}$ inches (8 inches for the $\frac{1}{2}$ -plate), have been specially computed by the Makers for the "Nydia," and are fitted in a rigid Mount with "N. & G." Iris Diaphragm.

Shutter.—Working between the Lens Combinations; of High Efficiency; absolutely silent and free from vibration. Made entirely of Metal, and dust-proof, so cannot get out of order through damp or dust. Remains closed while being set, the plates cannot, therefore, get accidentally exposed. Gives "Time" Exposures, and is provided with our Pneumatic Regulation Device for Automatic Exposures of from $\frac{1}{2}$ to $\frac{1}{1000}$ th second, specially tested for each Instrument. The Finger Release is extremely light; and a neat detachable Pneumatic Release can also be used.

Fittings.—Best Workmanship throughout. Woodwork well-seasoned Mahogany. Metal Parts Brass, black bronzed, or German Silver; all interchangeable and easily replaced.

The Camera is absolutely self-contained and complete, and, in addition to the features already specified, is supplied with:

A Strong Leather Case (black or brown) with Shoulder Strap.
Booklet of Instructions.

Prices of "Nydia" Camera, as per Specification.

Complete with One Box and Leather Case.

	$\frac{1}{4}$ -plate.	$\frac{1}{2}$ -plate.
1A. With <i>Aldis</i> f/7.7 Anastigmat Lens ...	£7 15 0	—
1B. With <i>Staeble-Werk</i> f/6.3 Anastigmat Lens ...	£8 8 0	—
2. With <i>Ross</i> f/6.3 Homocentric Lens ...	£10 10 0	£18 18 0
2S. With two accurately paired <i>Ross</i> f/6.3 Homocentric Lenses ...	9.9.0	Stereoscopic. £19 19 0

(Cases of Nos. 2 and 2S Velvet Lined and fitted with Cycle Straps.)

The Quarter-Plate "Nydia"

Can now be supplied with any of the following Film or Plate Changing Devices. All are detachable and interchangeable, and can be used with any existing "Nydia" without special adaptation:—

	£	s.	d.
"Nydia" Changing Box, Form 1, for 8 Plates or 8 Cut Films, or Form 2, for 12 Cut Films ...	2	15	0
"Nydia" Changing Box, Form 1, for 12 Plates or 12 Cut Films, or Form 2, for 24 Cut Films...	3	10	0
Special Film-Pack Adapter, for the new daylight loading Packs of Isochromatic Films ...	1	10	0
Special Film-Pack Adapter, interchangeable with Focussing Screen ...	2	0	0
Dark Slide Attachment, containing 3 Single Metal Slides for Plates, and Focussing Screen ...	2	15	0

Accessories.

	$\frac{1}{4}$ -plate. £ s. d.	$\frac{1}{2}$ -plate. £ s. d.
Russia Leather Bellows, recommended for Tropical Climates, extra cost per Box	1 1 0	1 15 0
Tripod Board, for holding the "Nydia" on a stand, with "N. & G." Screw ...	0 7 6	0 10 6
Pneumatic Release (detachable) with Ball and Tube ...	0 5 6	0 6 6
Finder Levels, for Horizontal and Vertical Pictures ...	0 6 6	(included)
Leather Cases:—		
For "Nydia" Camera.—Plain Case and Sling ...	0 8 6	—
Best Velvet-lined Case, with Sling and Cycle Straps ...	0 12 6	0 17 6
For "Nydia" Box.—Plain Case and Sling	0 6 6	—
Best Velvet-lined Case ...	0 10 0	0 15 0
Leather Caps, to protect lenses from dust each	0 1 0	0 1 6

The "N. & G." SQUARE-REFLECTOR

REFLEX.

MIRROR-FOCUSSING CAMERA.

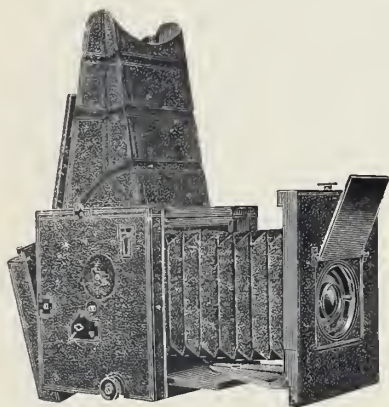


Fig. 14.

S.R. Camera opened. Showing the new Folding Hood drawn up, and the Front extended for Copying full size.

THE "N. & G." Reflex Self-Focussing Camera shows the image to be photographed right up to the moment of exposure, and *in the exact degree of size and brightness* in which it will fall on the plate. It thus entirely removes the two great difficulties in Photography: the Guessing of Distances and the Estimating of Exposures. It ensures

Dead Accuracy of Focus and Correctly-timed Negatives under all conditions, and renders the mechanical adjustments necessary for taking a picture practically automatic.

The importance of this absence of guess-work and uncertainty, leaving the mind absolutely free to consider the *artistic aspects* of the subject, can only be realised by those who have used a good Camera of this type. It always brings success within the reach of Beginners who, for any reason, have been unable to master a Scale-focussing Camera, and it gives to the most experienced expert increased confidence when doing difficult work.

All the faults in design and workmanship which caused the constant failure of previous attempts to construct a successful camera of this type have been entirely overcome—by our unique experience in the construction of high-class Cameras of all kinds, a careful study of the Reflex Principle

The "N. & G." Square-Reflector Reflex

Mirror-Focussing Camera.

on its own merits, a radical departure from the general lines hitherto followed, and the introduction of important improvements in every detail. The "N. & G." Reflex is, therefore, an Instrument which *differs entirely from previous Reflexes*, and the *Smallness, Neatness and Absolute Reliability of which* have not so far been present, or even deemed possible of attainment, in any Self-Focussing Camera.



Fig. 15.
Closed, for carrying.

The "N. & G." Reflex is the Best Camera for Natural History, Portrait and Figure Studies, and all Subjects which must be photographed at close quarters, or which require Large Aperture or Long-Focus Lenses. For Landscape and General Work it is, of course, also as perfect as the *best* Hand or Tripod Camera.

It is the only Instrument enabling the Artist to properly study the composition of his Pictures; the Portraitist to secure the desired expression of his Sitter; the Naturalist to seize the characteristic attitude of an Animal.

For Press Work and Sporting Subjects, the "N. & G." Reflex, alone, provides the enormous Range of Adaptability required when one *must* secure a good negative irrespective of Speed, Time and Weather.

In fact, the "N. & G." Reflex will photograph *Anything*—from a distant Range of Mountains, to a Butterfly or Flower *Life Size*; from a Rock, to a Motor at full speed.

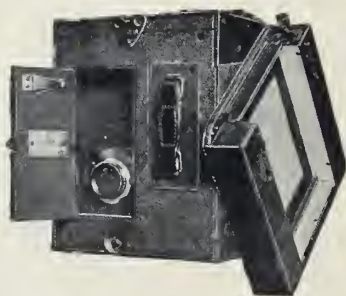


Fig. 16.

DESCRIPTION.

Lenses.—Zeiss 'Double Protar,' Series VIIa., giving 2 foci: $\frac{1}{4}$ -plate, $5\frac{1}{2}$ in. at $f/6.3$, and $9\frac{1}{2}$ in. at $f/12.5$ (this Lens is especially made for this Camera), 5×4 , $6\frac{3}{8}$ and $11\frac{3}{8}$ in.; $\frac{1}{2}$ -plate, $7\frac{7}{8}$ and $13\frac{3}{4}$ in. These Lenses are fitted, in a Special Magnalium Mount, right inside the Camera. The Lens Combinations can be easily detached, and by means of the *Quick-changing* Spring Flange the focus can be instantly altered. The Spare Combination is held in a Covered Recess in the Camera. 'N. & G.' Special Iris Diaphragm, easily set, engraved for both foci. Ross, Cooke, Dallmeyer, Goerz and other Lenses can also be fitted.

By means of the new 'N. & G.' Adapter the sunk Mount of the Normal Lens can be instantly changed for Long-Focus, Large Aperture, or Telephoto Lens.

Shutter.—Focal-plane, working immediately in front of the Plate, thus securing its full efficiency. The focal-plane Shutter has had various mechanical improvements made, and is fitted with an entirely new kind of blind material specially manufactured for 'N. & G.' Entirely new system, embodying vital improvements over previous Shutters of the same type: *Double Blinds* of specially strong fabric, rendering the spoiling of Plates through pinholes in the Blind practically impossible. *Accurately Tested* (not 'estimated') Automatic Exposures from $\frac{1}{100}$ th (5×4 , $\frac{1}{80}$ th; $\frac{1}{2}$ -plate, $\frac{1}{60}$ th) to $\frac{1}{800}$ th second, and "Time" Exposures at will. Adjustments made by *regulating the Width of the Slit* from the outside. *The tension of the Springs is never altered.* *Actual Speeds* (not arbitrary numbers) plainly visible on Speed Dial. *No complicated parts* to get out of order; the same Knob serves to set the Shutter and to alter the Speed. *Automatic Locking Device*, preventing overwinding the Shutter.

Square Reflector.—Constructed on an improved principle which, while showing the *full area* of the Picture, both Horizontally and Vertically at the same time, *makes it possible to use a Lens of Normal Focus in a Reflex.* Thus the 'N. & G.' Reflex is available for a much greater range of work than previous Reflex Cameras the shortest foci of which are too long for satisfactory Pictures of Street Scenes, Open Landscapes, Large Buildings near to Camera, &c.

The Reflector is perfectly plane, surface-silvered, untarnishable, and free from double-image. Although folding into such a very small space, it is made large enough to embrace all marginal rays, *Even with Long-Focus Lenses*, while the Screen is accurately marked by hand to prevent confusion of the Vertical and Horizontal Pictures.

Hood.—Now fitted with an entirely new form of **Folding Hood**, the chief features of interest being the simple means by which the Hood is instantly set up and closed down again into position by *one movement only.* **Special Folding Eyepiece** can be fitted with Lenses to suit customer's own sight.

Rotating Back.—The Rotating Back of the 'N. & G.' Reflex is made by special machinery, and is a combination of different metals, very strong, light, unaffected by damp or heat, dust-proof, and so constructed that any wear is automatically "taken up," it allows the Plates to be changed from the Vertical to the Horizontal Position, or *vice versa*, without loss of time or the need of removing or closing the Changing-Box or Slide.

Special Block System.—The Reflector, Shutter, and Rotating Back are combined so that it is impossible to set the Shutter, or to rotate the Back, unless the Reflector is down. As the Reflector itself automatically releases the Shutter, light cannot possibly reach the Plate except when the actual Exposure is made. And as the rotating Back is automatically locked, it cannot get accidentally shifted while Instrument is being carried about.

Release.—An exceedingly useful addition is an extra Release which is now fitted on the left-hand side of the camera, so that the right hand is free and can be used for focussing only. The right-hand Release is fitted to take a Ball and Tube or an Antinous Release, which gives Time, Bulb, and Instantaneous movements.

An Exposure can be made by two different methods: *Finger Release*, by just pressing a Button in the usual way; or by means of the *Detachable Pneumatic Release* supplied, either for Automatic Shutter Exposures or for "Time." Both Releases work noiselessly and are free from vibration. An important improvement which ensures Holding the camera steady is a small thumb handle provided on the left-hand side, and which leaves the right hand free for focussing, and allows the Shutter to be *instantly released on Fast Moving Objects*.

Changing System.—A set of 3 Double Dark Slides are supplied with the Camera. They are strongly made, of "solid" form and fitted with Vulcanite Shutters. One Slide fits right into the Back of the Camera, without projecting, and can always be carried ready for use. The other Slides fit into a Compartment of the Leather Case—or may be carried separately in the pocket. These Slides are interchangeable with 'N. & G.' Changing-Boxes for 12 Glass Plates, or for 24 Cut Films, or with Film-Pack Adapters, &c. Every kind of Sensitive Material in the market can, therefore, be used, and the number of Exposures one can make without resorting to a Dark-room is unlimited.

Rising Front.—Level.—A Rise of $\frac{1}{4}$ the length and $\frac{1}{3}$ rd the width of the Plate can be obtained by merely *rotating a Screw*. The amount of Rise required is shown by the Reflector, and, in addition, an accurate *T-level*, which folds right into the side of the Instrument when not in use, is provided to ensure freedom from distortion or Vertical or Horizontal lines.

Double Extension.—Every 'N. & G.' Reflex is specially made for the particular lens or lenses selected, and is adjusted so that when the Apparatus is *closed*, the normal-focus lens is exactly at "infinity." The Camera is thus always ready for work. A strong Baseboard,

actuated by a double Rack and Steel Pinion, allows ample adjustment for objects at different distances. When the *Double Extension* is required, this, in the '**N. & G.**' **Reflex**, is instantly obtained *without racking*, by using an entirely new Lengthening Device.

Objects can, therefore, be photographed *at any distance*, and if small enough, copied full-size, or even slightly *enlarged*. Lenses of different focal lengths can easily be used, by merely screwing them into the Flange of the Camera, and the Instrument is so absolutely rigid and strong, that it is particularly suitable for the modern "Tessar" and similar Large Aperture Lenses, the parallelism necessary for which cannot be secured in inferior, lightly built Reflexes. For Telephoto Work this Camera is, of course, also eminently well adapted.

Tripod Work.—The Reflector of the '**N. & G.**' **Reflex** can also be used for "*Time*" exposures, and a separate Focussing Screen can be provided, so that when the Camera is worked on a Tripod and is placed too high for the Reflector to be readily seen, the image can be focussed as with an ordinary Stand Camera.

Fittings.—The '**N. & G.**' **Reflex** is supplied, in addition to the features already specified, complete with the following Accessories:—

Two Strong Leather Handles with Steel-wired ends and Solid Bridges.

Rings for suspending Camera in front of the body.

'**N. & G.**' Safety Tripod Screw, and Bush.

Broad Canvas Webbing Sling with Steel Swivels.

Booklet of Instructions, and Exposure Cards.

The original Mount of the Lens.

General Construction.—Box-form Body of strongest possible construction, but so small that it is the lightest high-class Reflex. All working parts effectually concealed and protected, but *all easily accessible for cleaning or repair*. Every adjustment is made from the outside, with the Right Hand only, and all the parts are arranged in the most convenient position for Rapid Work. *There are absolutely no projections.*

Case and Covering.—All Woodwork is well-seasoned Mahogany, and every Board clamped and cross-tongued. All joints are fitted, and screwed together, to stand the most severe strain. *Metal Parts Magnalium*, for lightness, wherever possible. Covered throughout with Real Black Morocco selected for wear and appearance.

Special.—A very cleverly designed Adapter is now being supplied to order, which meets a much desired want. With the new '**N. & G.**' Interchangeable Adapters it is possible to have two entirely different lenses, such as a large aperture $f/4.5$ and a convertible lens, which can be immediately changed over at will, with one partial turn of the lens cup provided.

The '**N. & G.**' **Reflex** is made entirely at our London Factory under personal supervision. Every detail is perfect in Design, and the Workmanship and Finish are those of a High-class Scientific Instrument.

Prices and Accessories of the

“N. & G.” Square

Reflector Reflex. .

With Zeiss “Double Protar” Anastigmat, giving 2 foci, and 3 Double Dark Slides ...	$3\frac{1}{2} \times 2\frac{1}{2}$ plate.	$\frac{1}{4}$ -plate.	5 × 4 or 9 × 12 c/m.	$\frac{1}{2}$ -plate.
	£30 0 0	£35 0 0	£40 0 0	£50 0 0

Without Lens , but including cost of fitting a Suitable Lens (<i>from</i>)	£25 0 0	£27 10 0	£32 0 0	£40 0 0
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Lenses fitted & recommended : Zeiss “Double Protars,” Series VIIa. }	No. 1. $4\frac{1}{8}$ in. f/6.3 $7\frac{1}{4}$ in. f/12.5	Special. $5\frac{1}{2}$ in. f/6.3 9 $\frac{1}{2}$ in. f/12.5	No. 7. $6\frac{3}{8}$ in. f/6.3 11 $\frac{3}{8}$ in. f/12.5	No. 10. $7\frac{7}{8}$ in. f/6.3 13 $\frac{3}{4}$ in. f/12.5
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Strong Velvet-Lined Leather Case , with good Lock and Fittings to hold Camera, Slides, and Sundries ...	$3\frac{1}{2} \times 2\frac{1}{2}$ plate.	$\frac{1}{4}$ -plate.	5 × 4	$\frac{1}{2}$ -plate.
	£1 10 0	£1 15 0	£2 0 0	£2 10 0

“N. & G.” Reflex Telephoto , including Adapter, and Marking degrees of Amplification ...	£5 15 0	£5 15 0	£5 15 0	£6 12 6
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“N. & G.” Changing Boxes , for 12 Plates or Films, or 24 Films, each ...	£2 5 0	£2 5 0	£2 15 0	£3 15 0
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Special Film-Pack Adapter , for the new day-light - changing Premo Film-Pack ...	—	15 0	£1 5 0	£2 5 0
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Supplementary Shutter for long automatic Exposures; including cost of fitting, and Pocket Case ...	£1 5 0	£1 5 0	£1 10 0	£1 15 0
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Set of 6 Single Metal Slides , with daylight changing Adapter and Leather Case ...	$3\frac{1}{2} \times 2\frac{1}{2}$ $\frac{1}{4}$ -plate.	£1 7 6	£1 15 0	
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Case and Covering.—All Woodwork is well-seasoned Mahogany, and every board clamped and cross-tongued. All joints are fitted and screwed together, to stand the most severe strain. *Metal Parts, Magnalium*, for lightness, wherever possible. Covered throughout with Real Black Morocco selected for wear and appearance.

The **“N. & G.” Reflex** is made entirely at our London Factory, under personal supervision. Every detail is perfect in Design, and the Workmanship and Finish are those of a High-class Scientific Instrument.

. . The . .
"N. & G." Long-Focus Reflex.

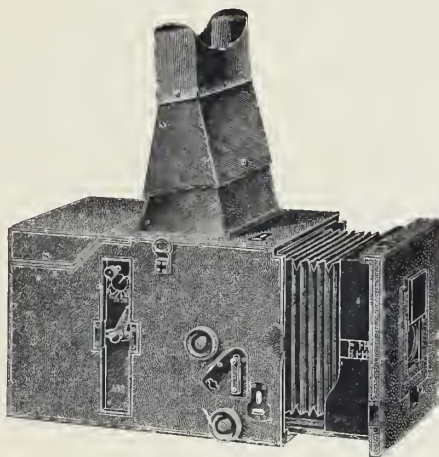


Fig. 17.

Camera opened, ready for work.
Showing the Front partly extended, and the detachable Eye shade
fitted over the Hood.

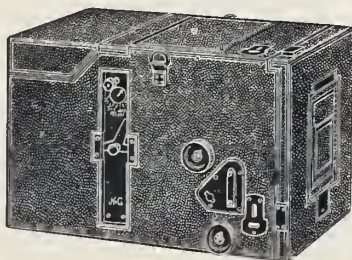


Fig. 18.

Camera closed for carrying.

Is specially constructed for Long-focus Lenses, and is available
for all kinds of Scientific Work.

The "N. & G." Long-Focus Reflex Camera

NATURALIST'S PATTERN.

THE immediate success which the "N. & G." L.-F. Reflex met with in all parts of the World was due to its offering, for the first time, a Self-focussing Instrument of the smallest (*i.e.*, Single Lens) type in which all the serious drawbacks of Reflex Cameras, which had so far been considered unavoidable, were *entirely overcome*, and one which, to the Leading Features of the Reflex Principle at its best, *added* some of the most Valuable Points of the well-known "N. & G." (Universal) System.

The L.-F. Pattern is specially designed to meet the requirements of Naturalists, Artists, Travellers, by whom the many distinct advantages peculiar to its design will always be preferred:—

It is by far the Most Simple Self-focussing Camera, both in construction and method of working.

It is Absolutely Self-contained, so that nothing can get lost.

The Changing-box, extra Screen, &c., are Enclosed and Protected, so that the Camera may be left exposed anywhere.

The Shutter is Instantly Detachable, so can be kept quite clean, or replaced.

Even if the Shutter *should* go wrong and could not be replaced, **the Camera can be used just as well without it** for ordinary Tripod Work.

Prices and Technical Data of the "N. & G." Long-Focus Reflex.

	$\frac{1}{4}$ -plate	5 × 4	$\frac{1}{2}$ -plate
With Zeiss "Double Protar" Anastigmat, giving 2 foci, and one Changing-box ...	£35 0 0	£40 0 0	£50 0 0
Without Lens , but including cost of fitting a Suitable Lens ... (from)	£26 10 0	£29 10 0	£36 0 0
† Lenses fitted:—	No. 7.	No. 10.	No. 13.
Zeiss "Double Protars,"	6 $\frac{3}{8}$ in. f/6.3	7 $\frac{7}{8}$ in. f/6.3	9 $\frac{1}{4}$ in. f/6.3
Series VIIa. ...	11 $\frac{3}{8}$ in. f/12.5	13 $\frac{3}{4}$ in. f/12.5	16 in. f/12.5
*Weight ...	6 $\frac{1}{4}$ lbs.	9 $\frac{1}{4}$ lbs.	12 lbs.
*Measurement ...	10 $\frac{5}{8}$ × 5 $\frac{5}{8}$ × 6 $\frac{1}{2}$ in.	12 $\frac{1}{4}$ × 6 $\frac{3}{8}$ × 7 $\frac{1}{2}$ in.	14 × 8 $\frac{1}{2}$ × 8 in.
*Maximum Extension ...	15 $\frac{1}{4}$ in.	18 $\frac{1}{2}$ in.	21 in.
Range of Shutter Speeds ...	$\frac{1}{10}$ to $\frac{1}{800}$ th sec.	$\frac{1}{8}$ to $\frac{1}{800}$ th sec.	$\frac{1}{6}$ to $\frac{1}{800}$ th sec.

* Including Lens, Changing-Box and extra Screen.

† Ross, Cooke, Dallmeyer, Goerz, and other Lenses can be fitted.

ACCESSORIES.

Strong Velvet-lined, Leather Case , with best Lock and Fittings to hold the Camera ...	$\frac{1}{4}$ -plate	5 × 4	$\frac{1}{2}$ -plate
Extra "N. & G." Changing- boxes , for 12 Plates or Films, or for 24 Films each	30/-	35/-	50/-
	45/-	55/-	75/-

:: THE :: “‘N. & G.’ De Luxe” Camera.

For HAND and TRIPOD WORK.

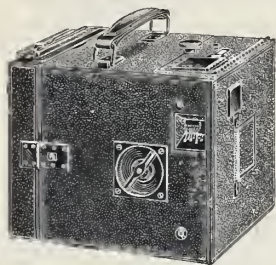


Fig. 19.

Closed, as carried ready for Work.

FOR the majority of Workers the regular “‘N. & G.’ Universal” Camera is, and will probably always remain, the best. It is the outcome of fourteen years’ constant evolution and improvement, and not only provides every essential for modern photography, but is so simple to use, and free from complications, that it is the most reliable Apparatus, both in the hands of Beginners and of Experts working in trying climates or under difficult circumstances.

It is also offered at a cost which places it within reach of every one who appreciates a high-grade standard article.

Still, in the course of time, we have had occasion to make many important improvements in details in order to meet individual requirements.

It is for the purpose of combining the most valuable of these recent improvements with the best points of the regular “‘N. & G.’” System, and some of the leading new features of the S.-R. Reflex, that the “‘N. & G.’ De Luxe” has been designed. The result is a Camera offering all the essential points which have made the “‘N. & G.’ Universal” an acknowledged standard throughout the World, in an Apparatus only two-thirds its bulk, and little more than half its weight. An Instrument, therefore, which will appeal to those requiring the most up-to-date Scale-Focussing Camera it is possible to construct as regards both completeness and portability, and to whom the necessarily higher cost is but a secondary consideration.

As the name implies, we offer this new Camera as a *Luxury*. But we must insist on the fact that, unlike other apparatus similarly named (the “‘lux” of which has been merely a useless increase of cost through the employment of precious metals and other fancy materials, which add nothing to, if they do not detract

from, the article as a photographic instrument), the “‘N. & G.’ De Luxe” is a luxury only in that it offers increased facilities for doing good work, and for obtaining a greater variety of results, at the same time bringing the necessary size of a highly efficient camera to its irreducible minimum.

The “‘N. & G.’ De Luxe” Camera, therefore, while being a luxury which every advanced amateur will greatly appreciate, is by no means an *Extravagance*.

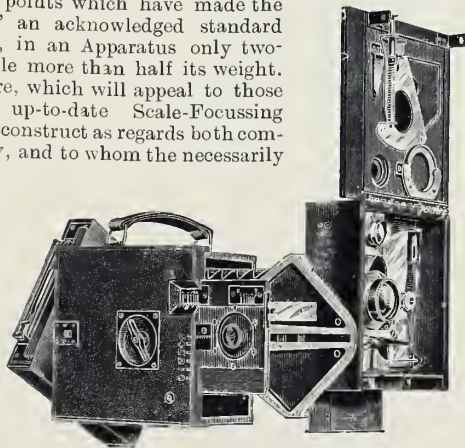


Fig. 20.

Opened, to show Fittings and Movements.

DESCRIPTION.

As the “‘N. & G.’ De Luxe” in all its main features is exactly like the 2-foci Special Pattern B “‘N. & G.’ Universal,” we give below, for the sake of clearness, a description of those features only wherein it differs from the Standard Type.

Lens.—The Camera is fitted with a Zeiss Series VIIa. No. 4 ‘Double Protar,’ giving 2 foci: 5 in. at $f/6.3$, and 9 in. at $f/12.5$. Ross, Cooke, Dallmeyer, Goerz and other Lenses can also be fitted.

The Instrument is particularly well adapted for Wide-Angle or Telephoto Work.

Shutter.—*Entirely new form of high-precision Shutter*, working between the Lens Combinations. Made of Metal throughout, noiseless and free from vibration. Fitted with *Disappearing Setting Knob*. Hermetically closed Pneumatic Regulation, with *Variable-travel Lever*, allowing exact adjustment to any desired Speed. *Four times* the usual range of Automatic Exposure, namely, from 1 to $\frac{1}{260}$ th second (giving a total variation in exposure of from 1 to 16384 times!). “Time” Exposures at will. Finger and Pneumatic Releases.

Rotating Back.—As in our Square-Reflector Reflex, allowing the Camera to be *held always in the same position*, and the plates to be placed Vertically or Horizontally without loss of time, or the need of Removing or closing the Changing-box or Slide.

Changing System.—The “‘N. & G.’ De Luxe” is made in 2 Forms:—

Open-Back Pattern, as illustrated. This takes all the Plate or Film changing Devices which we have introduced for our $\frac{1}{4}$ -plate S.R. Reflex. They comprise:—

‘N. & G.’ Changing-boxes for 12 Plates or Films.

‘N. & G.’ Changing-boxes for 24 Films.

Solid Double Dark Slides with Ebonite Shutters.

Sets of Single Metal Slides with Quick-changing Adapter.

Film-Pack Adapters for daylight-changing Cut Films.

Closed-Back Pattern, with Dark Focussing-Chamber, like the regular “‘N. & G.’ Universal.” This takes either:—

Special ‘N. & G.’ Changing-boxes for 8 Plates or Films, and a Focussing Screen in position.

Or Special ‘N. & G.’ Changing-boxes for 12 Plates or Films (or for 24 Films), without a Screen.

Finder and Level.—*One Finder only* is used in this Camera. It shows both the Vertical and Horizontal images simultaneously, which obviates the loss of time consequent on working two Finders with other Cameras. The Finder is accurately marked by hand to show the exact angles given by the two foci of the Lens. One T-level, close to the Finder, enables one to adjust the Camera, Vertically and Horizontally.

Rising Front.—An unusually large amount of Rise is provided: $1\frac{1}{4}$ inches, is equivalent to $\frac{5}{16}$ ths of the Vertical, and $\frac{5}{13}$ ths of the Horizontal Picture. The Rise is actuated by very smooth Screw-action, enabling one to obtain to a nicety the exact adjustment desired.

Marked Finder.—The Finder of the “‘N. & G.’ De Luxe” is marked with Scales showing instantly, and without the need of any calculations, the exact amount of Rise necessary for any Subject, when using either the Normal or Long focus, and for both Vertical and Horizontal Pictures.

Double Extension.—The “‘N. & G.’ De Luxe” is specially made for its own Lens, and is adjusted so that when the Apparatus is *closed*, the normal-focus Lens is exactly at “infinity.” The Camera is thus always ready for work. A strong Baseboard, actuated by a Steel Rack and Sunk Pinion Handle, allows ample adjustment for objects at different distances. When the *Double Extension* is required, this, in the “‘N. & G.’ De Luxe,” is instantly obtained *without racking*, by using the special Sliding Extension.

Focussing.—When working the Camera in the hand, and for all objects from two yards to “infinity,” the Camera is set for focus by means of the Scales supplied. These are measured by actual trial for each Lens, are accurately engraved, and can be absolutely relied upon. For very near objects, and for Tripod Work generally, a *Special Focussing Screen* is provided with the Open-Back Pattern. (It is included in the Closed-Back Pattern with 8-plate Box.)

Depth of Field Index.—The “‘N. & G.’ De Luxe” is provided with the ‘N. & G.’ Depth of Field Index, showing at a glance the Near and Far Distances which are sufficiently sharp when the Focussing Scale is set for any given (intermediate) distance, and when using any Diaphragm from $f/6$ to $f/32$.

Fittings.—The “‘N. & G.’ De Luxe” is absolutely complete, and, in addition to the special features already specified, and all the points of the ordinary “‘N. & G.’ Universal,” is supplied with the following Accessories :—

- A Strong Leather Handle with Hand-made Fittings.
- ‘N. & G.’ Safety Tripod Screw, with Single Bush serving for both Vertical and Horizontal Pictures.
- Best Shoulder Strap with Swivels.
- Booklet of Instructions and Exposure Cards.
- The original Mount of the Lens.

PRICES AND

Technical Data of the “‘N. & G.’ De Luxe.”

Made in $\frac{1}{4}$ -plate ($4\frac{1}{4} \times 3\frac{1}{4}$ in.) size only.

Price with Zeiss ‘Double Protar’ Anastigmat, giving 2 foci :—

Open-Back Pattern , with any Plate or Film-changing Device		£30 0 0
Closed-Back Pattern , with either 8-plate Box and Screen, or 12-plate Box		£32 0 0

Lens fitted, Zeiss ‘Double Protar,’ Series VIIa., No. 4—
5 in., $f/6.3$; 9 in., $f/12.5$.

Open-Back Pattern.

Weight	... ..	2 lbs. 14 ozs.
Measurement	... ..	$6\frac{3}{4} \times 5\frac{1}{4} \times 5\frac{1}{4}$ in.
Maximum Extension	... ..	11 in.

Closed-Back Pattern.

Weight, with Box and Screen	... ..	$4\frac{1}{4}$ lbs.
Measurement	... ..	$8\frac{3}{4} \times 5\frac{1}{4} \times 5\frac{1}{4}$ in.
Maximum Extension	... ..	11 in.

Range of
Shutter Speeds

1 sec.
to $\frac{1}{200}$ th sec.

Work done with THE SPECIAL PATTERN B

“‘N. & G.’ Universal.”

THE two accompanying blocks, reduced from $\frac{1}{4}$ -plate negatives, *taken from exactly the same spot*, will give some idea of the power which the **Special B** places in the hands of the Photographer.

The many advantages of long focus Lenses must be evident to all experienced

Workers. It often happens that objects which to the eye seem of importance in a picture, are so far away from the Camera, that when photographed with Lenses of the usual foci, they are quite insignificant in the resulting negative. Distant mountains, ships far out at sea, buildings across a river (as in the specimen selected), etc., have



Fig. 21.

generally to be left untaken for this reason. Again, one is sometimes struck with a pleasing bit of composition, or by a bold effect of lighting, which cannot be satisfactorily reproduced by the Lens of an ordinary Camera. If we attempt to take the scene from where we stand, the principal objects will be dwarfed, and the perspective distorted, while if we go nearer to make the subject larger, the desired effect is entirely lost.

By means of the **Special Pattern B Camera**, all such subjects may be easily photographed the same apparent size, and in the same relative proportions which they present to the eye.



Fig. 22.

:: The ::

“N. & G.’ Universal” Camera

**FOR HAND
And TRIPOD WORK.**

THE “N. & G.’ Universal” is the best Camera for All-round Work.

It takes all kinds of Sensitive Material, and

is as efficient on a Tripod as in the hand. While so simple in design that it is **the easiest Camera to use** for all ordinary subjects, it contains, in reserve, every Adjustment required in Photography, and can readily be adapted for Wide-

Angle, Telephotographic and other Special Work as well.

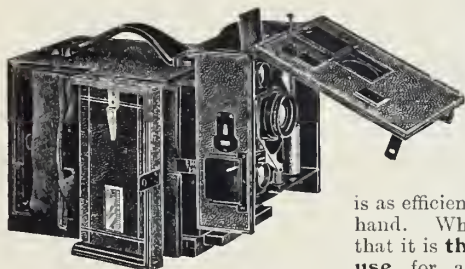


Fig. 23. Opened, to show Fittings and Movements.

It Will Take Anything!

Its all-round efficiency (long proved to be superior to that of any other Camera, of *any type*) has been attained, not by cramming into it complicated adjustments difficult to master, but by the constant simplification and improvement of all its details, continued during many years, in combination with a well-considered principle of construction and the most accurate adjustment of all its parts.

The “N. & G.’ Universal” holds the unique record of having been

Before the Public for Eighteen Years,

and has earned a world-wide reputation as a thoroughly well-made reliable Instrument, capable of the Finest Work. It is not a “novelty” to play with for a few months, but a Tool to use during a lifetime.

If the unusual thoroughness of its construction necessarily renders the cost of production comparatively high, it must be remembered that an “N. & G.’ Camera soon saves its cost in plates, time and trouble, stands years of work in the most trying climates, never needs repair, and resists accidents which would prove fatal to inferior apparatus. Above all, the “N. & G.’” is the only Camera ensuring, and retaining, even after years of rough work, the exquisite (but easily lost) qualities of modern Lenses, which are utterly thrown away in cheap, over-light machine-made Cameras.

The “N. & G.’”

**is an Instrument of
Absolute Precision.**



Fig. 24.
Closed, as carried ready for Work.

DESCRIPTION.

Lenses.—Lenses of any focal length can be used. They are fitted with the utmost care, and the centering and optical adjustments are rigorously tested. The Camera contains a rigid Magnalium Mount; the Lens Combinations can be easily detached (in the Special B by means of *Quick-changing* Spring Flanges) and are available for use in any other Camera.

Iris Diaphragm.—Specially Constructed. Has no rivets to work loose, and cannot get out of order or wear shiny.

Self-Capping Device.—Works automatically in front of the Lens, absolutely prevents accidental exposure, and protects the Lens from Dust, Spray, or other injuries. An Automatic Spring Door acts as a further protection, and provides an auxiliary method of giving "Time" Exposures.

Shutter.—Absolutely reliable. It is extremely simple in construction, has the highest possible efficiency, and works between the Lens Combinations. It is made entirely of metal, is noiseless and perfectly free from vibration, can easily be kept clean, and never gets out of order. It gives "Time" Exposures at will, and full range of Automatic Exposure from $\frac{1}{2}$ to $\frac{1}{1000}$ th second, accurately tested for each Instrument, and controlled by our Pneumatic Regulation (Hermetically closed), which ensures accuracy under all possible conditions. Both Finger and Pneumatic Releases are provided.

Index Plate.—A deep Recess in the bottom of the Front of the Camera conceals and protects the Index Plate, which bears side by side the Iris Diaphragm and Shutter Scales. These are accurately marked in relation to each other so that any combination of *Speed* and *Aperture* can be made with the certainty of the plates receiving exactly the same amount of Exposure. The "N. & G. Universal" is the only Instrument in which, say, $\frac{1}{2}$ sec. at $f/45$ gives exactly the same amount of light on the plate as $\frac{1}{8}$ th at $f/8$, or with which four times $\frac{1}{8}$ th exposure on one plate gives exactly the same result on development as one $\frac{1}{8}$ th exposure on another plate!

Changing System.—One 'N. & G.' Changing-Box for 12 Glass Plates or 12 Cut Films (or one for 24 Films), fitted with an Automatic Index for recording the number of Exposures, is supplied with the Camera. These Boxes are detachable, and interchangeable with other Boxes, and with Double Dark Slides. Various kinds of Sensitive Material in the market can, therefore, be used, and the number of Exposures one can make without resorting to a Dark-room is unlimited.

Finders and Levels are provided for Vertical and Horizontal Pictures, and both are as accurate as they can be made. The Finders are protected with Hoods and Dust-covers, and can be seen in any light. They are of the "Real-image" type, and are marked by hand to show the exact angle included on the Plate. (Finders of Special B Cameras show the *different angles* of the Lenses. All Finders can also be marked, to order, with Rising Front Scales.)

Rising Front.—The full Rise ($\frac{1}{4}$ the length or width of the Plate, respectively) can be obtained by merely sliding the Front of the Camera up, either Vertically or Horizontally. The friction Slides are of German Silver and can be adjusted for wear.

Double Extension.—Every “‘N. & G.’ Universal” is specially made throughout for the particular Lens, or Lenses, selected, and is adjusted so that when the Apparatus is *closed*, the normal-focus Lens is exactly at “infinity.” The Camera is thus always ready for work. But a strong Baseboard, actuated by a Steel Rack and sunk Pinion Handle, enables one to extend the Instrument to double the normal length. Objects can, therefore, be photographed *at any distance*, and even copied full-size if small enough for the plate. Lenses of different focal lengths can, of course, be easily adapted, and the Camera is so rigid when fully extended that it is particularly suitable for Telephoto Work. For Wide-Angle Work, the Baseboard can be made to rack *in* as well as out.

Focussing.—When working the Camera in the hand, and for all objects from two yards to “infinity,” the Camera is set for focus by means of the Scales supplied. These are measured by actual trial for each Lens, are accurately engraved, and can be absolutely relied upon. For very near objects, and for Tripod Work generally, a *Special Focussing Screen* is contained in the Camera, the back part of which forms a *Dark Focussing Chamber*. The actual image to be taken can, therefore, be seen at any time and critically focussed, without the need of a cloth, hood, or any encumbrance.

Fittings.—The “‘N. & G.’ Universal” is absolutely self-contained and complete, and, in addition to the features already specified, is supplied with the following Accessories:—

- A Strong Leather Handle, with Steel-wired ends and solid Bridges.
- ‘N. & G.’ Safety Tripod Screw, with Bushes for Vertical and Horizontal Pictures.
- Best Shoulder Strap with Swivels.
- Booklet of Instructions and Exposure Cards.
- The original Mount of the Lens.

General Construction.—Box-form Body of strongest possible construction consistent with due lightness. All the Working Parts are effectually concealed and protected. *There are absolutely no projections*, and no loose Parts (except the Screw, and Ball and Tube for Tripod Work). All the Parts are placed in the most convenient position for Rapid Work, and all are easily accessible for cleaning, &c. Every Adjustment is made from the outside, with the Right Hand only, so that the Camera need never be opened when in work, except for changing plates.

Case and Covering.—All Woodwork is well-seasoned Mahogany, and every Board clamped and cross-tongued. All joints are fitted, and screwed together, to stand the most severe strains. Covered throughout with Real Black Morocco selected for wear and appearance.

The “‘N. & G.’ Universal” is made entirely at our London Factory, under personal supervision. Every detail is perfect in Design, and our Workmanship and Finish are those of a High-class Scientific Instrument.

SIZES AND PRICES

OF THE

“N. & G. Universal” Camera

PATTERN B.—For *Zeiss* “**Tessar**,” *Goerz* **Double Anastigmat**, *Ross* **Homocentric**, and any other **Single Focus Lenses**.

This is the “**N. & G. Universal**” in the simplest possible form. It differs from the 2-Foci Special B only as regards the Lens; it is identically the same in every other respect, and is the Pattern we usually make to fit Customer's own Lenses.

	$\frac{1}{4}$ -plate.			5 × 4			$5\frac{1}{2} \times 3\frac{1}{2}$			$\frac{1}{2}$ -plate.		
				or 9 × 12 c/m.			(Post Card)					
With Zeiss new “Tessar”	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
<i>f</i> /6.3 Anastigmat	18	0	0	21	10	0	24	0	0	28	0	0

Without Lens , but in-												
cluding cost of fitting	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
any Suitable Lens (<i>from</i>)	13	15	0	16	5	0	18	15	0	20	0	0

SPECIAL PATTERN B—2 FOCI.—For **Convertible Lenses** with *similar* Combinations.

As neat and light as the ordinary Pattern B; its range of focus is amply sufficient for any but the most extreme work. The maximum aperture is *f*/6.3.

	$\frac{1}{4}$ -plate			5 × 4			$5\frac{1}{2} \times 3\frac{1}{2}$			$\frac{1}{2}$ -plate		
				or 9 × 12 c/m.			(Post Card)					
With Zeiss Series VIIa												
“ Double Protar ” An-												
astigmat, Nos. 4, 7, and	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
10 respectively	22	10	0	26	0	0	28	0	0	32	0	0

Without Lens , but in-												
cluding cost of fitting	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
any Suitable Lens (<i>from</i>)	15	5	0	17	5	0	19	15	0	21	5	0

The “N. & G. Universal” Camera is also made to order in the following sizes:—

$3\frac{1}{2} \times 2\frac{1}{2}$, $3\frac{1}{4} \times 2\frac{3}{8}$, $3\frac{1}{4} \times 3\frac{1}{4}$, $6\frac{1}{2} \times 4\frac{1}{4}$, and 7×5 inches, and 13×18 centimetres.

ACCESSORIES

FOR THE

“N. & G.’ Universal” Camera

STRONG VELVET-LINED LEATHER CASES (Black or Brown Leather) with best Lock and Fittings.

		Pattern B, or Spl. B, 2-foci.		Spl. B, 3-foci, or H.S. Pattern.		Stereoscopic or Twin Lens.
$\frac{1}{4}$ -plate	...	21/0	...	25/0	...	30/0
5 × 4	...	27/6	...	30/0	...	35/0
$\frac{1}{2}$ -plate	...	35/0	...	37/6	...	—

SOFT WATERPROOF DUST COVERS.

Very light, and fold quite small for the Pocket when not in use.

		Pattern B, or Spl. B, 2-foci.		Spl. B, 3-foci, or H.S. Pattern.		Stereoscopic or Twin Lens.
$\frac{1}{4}$ -plate	...	5/6	...	5/6	...	8/0
5 × 4	...	7/0	...	7/0	...	9/6
$\frac{1}{2}$ -plate	...	9/0	...	10/0	...	—

RUSSIA LEATHER BELLOWS.—Strongly recommended for Tropical Climates, to protect Cameras from Insects. Extra cost:—
 Pattern B, $\frac{1}{4}$ -plate, 20/0; 5 × 4, 25/0. Special B, $\frac{1}{4}$ -plate, 2-foci, 20/0;
 3-foci, 25/0. 5 × 4, 2-foci, 25/0; 3-foci, 30/0.

(Other patterns in proportion.)

EXTRA CHANGING BOXES, CARRIERS, ETC.

The “N. & G.” Changing Boxes provide by far the most reliable and quickest method of Changing Plates or Films; they are a certain prevention of pinholes through dust, and reduce the possibility of double exposures through inadvertence to a minimum.

For Full Particulars and Prices, see Changing Boxes.

DOUBLE DARK SLIDES.

Interchangeable with the Changing Boxes. For home use, and in all cases where only a few Plates or Films are required.

One Slide and Adapter	...	$\frac{1}{4}$ -plate, 17/6; 5 × 4, 21/0
Set of 3 Slides and Adapter	...	„ 45/0; „ 55/0

The "N. & G." CAMERA.

FOR SPECIAL PURPOSES.

ALTHOUGH ninety-nine Customers out of a hundred, of course, find the Regular Type of "**N. & G.**" Camera (Pattern B or Special B), the best Instrument for their work, the "**N. & G.**" Universal" System of construction can be modified to almost any extent to meet special requirements, and the following Apparatus for **High-Speed** and **Stereoscopic Work** have also become great favourites among Amateurs and Professionals devoted to these branches of the art.

Finally, we also construct a Pattern on the **Twin Lens** self-focussing principle for Portrait Photographers, Naturalists, etc., who have to deal mostly with comparatively small subjects very close to the Camera.

H.S. (High-speed) Pattern.

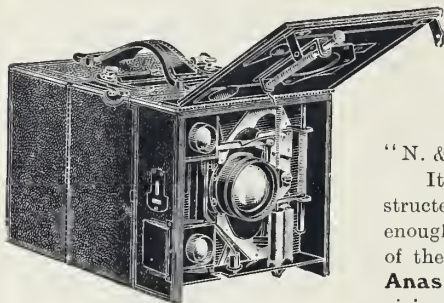


Fig. 25.

Intended principally to provide the most perfect Instrument possible for Highest-speed Work, but retaining the full all-round efficiency of the Regular "**N. & G.**" Camera.

It is fitted with specially constructed **Lens Shutter**, large enough for the extreme aperture of the **Zeiss "Tessar" (f/4.5) Anastigmat Lens**, and yet giving the full range of automatic exposure from $\frac{1}{2}$ to $\frac{1}{1000}$ th sec., and

"Time." In addition to this the Camera contains an "**N. & G.**" **Detachable Double Blind Focal-plane Shutter**, adjustable for exposures of from $\frac{1}{100}$ th to $\frac{1}{800}$ th sec. The two Shutters work independently of each other, and each is provided with a Locking Device to keep it fixed open while the other Shutter is being used.

The **H.S. Pattern "N. & G." Camera** can cope, as regards the available Range of Speed, with practically every possible subject. Used with the *Large Apertures* of the Lenses fitted, the slower exposures of the Lens Shutter, on the one hand, enable one to secure good negatives on the dullest winter days, in the rain, or even after sunset, while, on the other hand, in good light, the faster exposures of the F. P. Shutter will ensure good photographs of Racing Horses, Motor Cars, etc.

It will be evident that this Camera is *the Instrument par excellence* for Press Photographers and other Professional Workers who cannot afford to miss *any* subject.

Sizes and Prices of H.S. Pattern.

	$\frac{1}{4}$ -plate			5×4 in.			$\frac{1}{2}$ -plate.		
	£	s.	d.	£	s.	d.	£	s.	d.
With Zeiss (new f/4.5) " Tessar " Lens	32	10	0	37	10	0	45	0	0

:: The ::

“N. & G.” Trellis Camera.

THE LATEST MODEL.

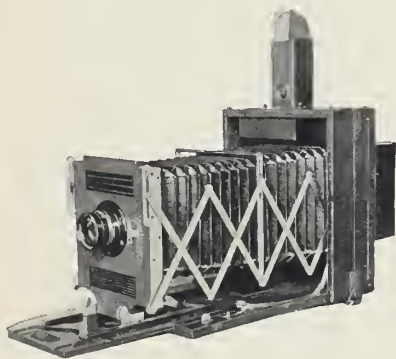


Fig. 26.

SPECIALLY interesting to Explorers, Travellers, and those requiring an efficient instrument which is capable of the extremes between Wide-Angle and Telephoto work.

The “N. & G.” **Trellis** has been designed to meet the requirements of those seeking the Folding

Focal Plane style of instrument, specially suited to Telephotography or Naturalistic subjects, but can be considered to represent the Premier Camera for hard wear and Universal work. The body is of very solid construction, and *absolute rigidity* is a special feature even with the full extension in use. Wide-Angle, Long Focus, Telephoto and Large Aperture Lenses can be used, and if fitted with the new “N. & G.” Adapter, can be quickly interchanged at will.

This model is fitted with an “N. & G.” Focal Plane Shutter, but can also be supplied with a supplementary between Lens-Shutter of “N. & G.” or other make. Further, the “Trellis” is supplied without a Focal Plane Shutter, if only a front Shutter is required.

The “N. & G.” **Trellis** can only be supplied to special order (in all sizes), and those requiring a quotation should state the focus of all lenses which will be used, size of plate and shutter or shutters required.

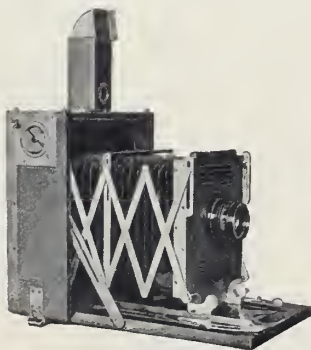


Fig. 27.

Stereoscopic Pattern.

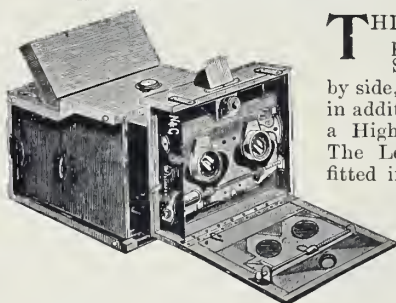


Fig. 28.

THIS Camera can be considered as practically two Pattern B (or Special B) $\frac{1}{4}$ -plate Cameras side by side, but built into one. It possesses, in addition, all the features essential in a High-class Stereoscopic Instrument. The Lenses are accurately paired and fitted in absolute adjustment upon one Single metal Base-plate. The Shutter has double Blades actuated by a single Setting Rod, and Single Hand and Pneumatic Releases. The two Iris Diaphragms are accurately adjusted to give exactly the

same apertures with both Lenses, and coupled to work with one Single Lever. The Septa of the Bellows and Changing Box can be easily removed for working the Camera for *Large Direct Pictures* with an Extra Front.

The size of plate adopted is the Double-Quarter ($6\frac{1}{2} \times 4\frac{1}{4}$ inches), and it is immaterial whether two ordinary Quarter Plates are used in the Carriers or single $6\frac{1}{2} \times 4\frac{1}{4}$ Plates, and, of course, either 12 *Stereoscopic Views* or 24 *Single Quarter-plate Pictures* can be taken at will.

Prices of Stereoscopic Pattern.

With 2 accurately paired 5 in. Ross $f/6.3$ Homocentric Lenses...	£ s. d.
With 2 Zeiss "Double Protar" Anastigmats, accurately paired for 2 foci; 5 in. at $f/6.3$ and 9 in. at $f/12.5$...	29 10 0
Also made for $6\frac{1}{2} \times 3\frac{1}{4}$ or $6\frac{3}{4} \times 3\frac{1}{4}$ in. plates to order.	40 0 0
Extra Fronts for Direct $6\frac{1}{2} \times 4\frac{1}{4}$ Pictures ... from	5 5 0

THE "N. & G." Changing Boxes

THE success of the "N. & G." Changing Boxes has been so great, that no photographic outfit can now be considered complete without them. Thousands of all sizes have been sold, and during the eighteen years they have been in the market, in their present form, not one has been known to fail. Nothing but the finest materials and perfect workmanship are passed in their construction.

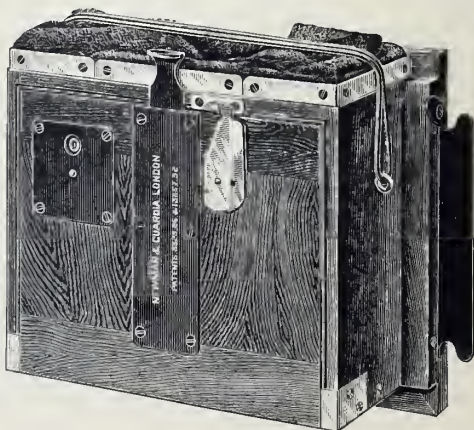


Fig. 86. Changing Box, Pattern B.

The "N. & G." Changing Box.

The "N. & G." Changing Boxes are readily detachable and interchangeable, and each taking twelve plates, or twenty-four films, the number of exposures a photographer can make (especially in connection with the "N. & G." Re-fill Boxes and Changing Bag) without returning to a dark-room, is practically unlimited. Using "N. & G." Changing Boxes is the only way to avoid double exposures and pin-holes—the two greatest troubles of the photographer. The plates cannot rattle in the Box, and the sharp edges of the glass touch nothing but steel.

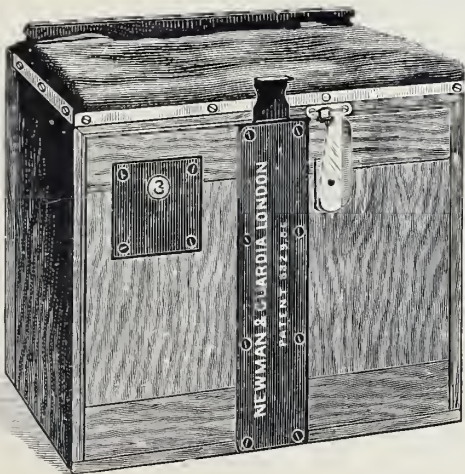


Fig. 81.

Changing Box, Pattern A.

The Boxes are made in three Patterns:—

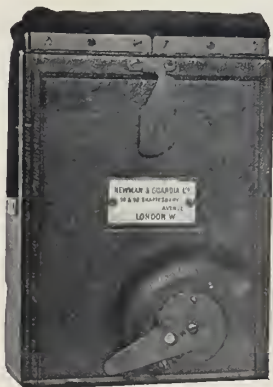


Fig. 82.

Pattern S.R. Changing Box.

A, cut to the smallest dimensions, for use in the "N. & G." and other Hand Cameras.

B, with a large front, which can easily be cut down to fit the reversing back of any Field Camera, or Hand Cameras made for Dark Slides.

S.R. Changing Box for use with the "N & G." Square Reflector Camera, and the "Sibyl" Models.

The S.R. Changing Box method of changing Plates or Films is precisely the same as Pattern A and B, and differs only in finish. Covered in Black Morocco Leather specially selected for wear and appearance.

Each pattern is made in two Forms.—

No. 1 contains twelve Carriers to take plates of any thickness. These Carriers are made of thin steel, and are not only very light but exceed-

The "N. & G." Changing Box.

ingly strong. By means of twelve Film Holders, supplied with each No. 1 Box, *cut films* may also be used in the above Carriers. This, indeed, is the only method of keeping films absolutely flat during exposure, for they are firmly *held all round the four sides*.

No. 2 contains twenty-four specially thin Carriers, for *cut films* only. With these Carriers no Holders are necessary.

PRICES.

Size.	Outside Measurement.	CHANGING BOXES.			Plate or Film Carriers.		
		Price each			Steel		
		Pattern A or B.			per doz.		
		£	s.	d.	£	s.	d.
3½ × 2½ in.	4½ × 3 × 1½ in.	2	5	0	2	5	0
4½ × 3½ in.	4¾ × 4½ × 2½ in.	2	5	0	2	5	0
5 × 4 in.	5½ × 5¼ × 2½ in.	2	15	0	2	15	0
9 × 12 cm.	133 × 122 × 63 mm.	2	15	0	—	—	—
6½ × 4½ in.	7¾ × 5½ × 2½ in.	3	15	0	3	15	0
6½ × 4¾ in.	7¾ × 6 × 2¾ in.	3	15	0	—	—	—

Any other size made to order.

We undertake to fit the Boxes to any Camera, at the lowest possible cost, according to the work required.

The "N. & G." Re-fill Boxes.

The safest and most satisfactory method of packing Plates and Films for travelling is to place them in the "N. and G." Carriers. This saves the usual trouble of unpacking them during a journey, and satisfactorily solves the difficult problem of re-packing exposed plates without risk of injuring the film. As each plate is protected by its own metal sheath, no breakage need be feared, however roughly the packages may be handled.

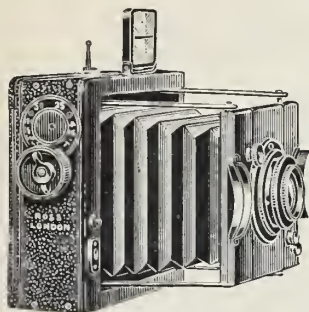
Instructions for Use.

Place the Changing-Box with the exposed plates, and a fresh Re-fill Box on a table.

Withdraw the back of the Changing-Box and turn the box over, so as to leave the exposed plates on the table. Take out the Spring Partition, and turn the top plate over; open the Re-fill Box, take out the plates, and fill the Changing Box in the usual way.

Place the exposed plates in the Re-fill Box, and write on the label "exposed."

Size.	With 1 doz. Plate Carriers.		With 1 doz. Plate Carriers and 1 doz. Film Holders, or 24 Special Film Carriers.	
	s.	d.	s.	d.
½-plate	5	6 each.	9	6 each.
5 × 4	7	6 "	12	6 "
½-plate	10	6 "	18	0 "



ROSS' "PANROS"

Patent Camera

with patent Self-closing Focal-Plane Shutter, is a most perfect type of Hand Camera, constructed to meet the demand for a folding camera of the highest class.

Advantages Exclusively Its Own. One projection only, all adjustments being effected by the one milled head. Speed regulation **before** or **after** setting Shutter.

Fitted with ROSS' HOMOCENTRIC Lenses.

	$\frac{1}{4}$ -plate with 5 in. Lens.	5 x 4, 6 in. Lens.	Post-card, $6\frac{1}{2}$ in. Lens.
	£ s. d.	£ s. d.	£ s. d.
"PANROS" Focal-plane Camera with Ross' Patent Homocentric Lens, Series III., $f/6.3$, in Focussing Mount, adjustable Focal-plane Shutter for Time or Instantaneous Exposures, three solid Double Dark Slides and Black Leather Carrying Case	12 17 6	14 0 0	14 10 0
"PANROS" as above, with Homocentric Lens, Series II., $f/5.6$, instead of Series III. }	13 17 6	15 0 0	17 5 0
"PANROS" as above, with Homocentric Lens, Series IV., $f/6.8$, instead of Series II. or III. }	12 17 6	14 0 0	14 10 0
Additional Double Dark Slides, each	0 12 6	0 13 0	0 14 0
Holder to take "Premo" Film Pack	0 15 0	0 18 0	0 18 0

Cameras without Lenses are charged 25/- extra.

FIELD CAMERAS.

The
"N. & G."
URAL"
Field
Camera.

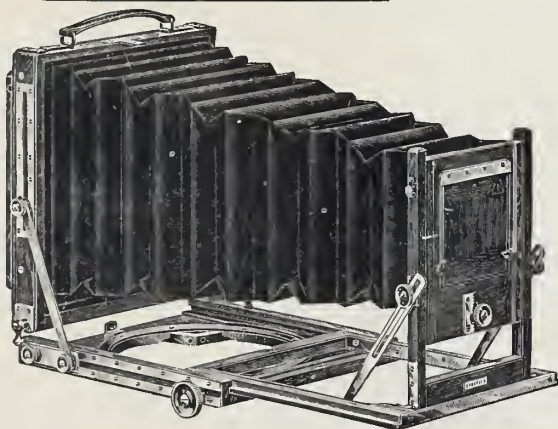


Fig. 30.

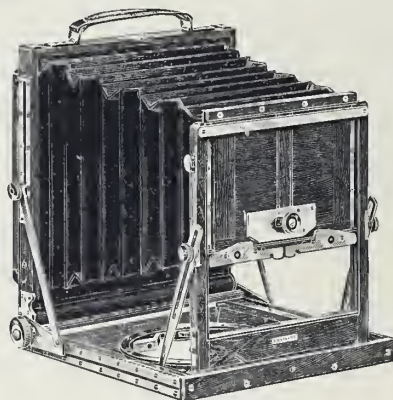
Best Light Long-Focus Camera.

The lightest tourist Camera made, having every improvement necessary for extreme subjects. The quality and finish are of the highest possible grade. It is arranged for wide-angle work, has swing back, swing front and side swing. The range of the rising front is sufficient for the most extreme need and at the same time the front is of a good size. Milled heads are fitted with check screws; double backs have our special spring fasteners. Price includes three double backs, turntable, rule joint stand, threefold sliding leg.

Size.	Price.	Extra Backs each.	Brass Binding extra.
	£ s. d.	£ s. d.	£ s. d.
$6\frac{1}{2} \times 4\frac{3}{4}$	10 4 0	1 0 3	1 7 0
$8\frac{1}{2} \times 6\frac{1}{2}$	12 0 0	1 4 0	1 13 0
10×8	14 12 6	1 8 6	1 13 0

FIELD CAMERA.

The "N. & G."
Convertible
"URAL"
Stereoscopic
and . .
Half-Plate.



The
"N. & G."
"URAL"
Field
Camera.

Fig. 29.

Convertible Half-Plate and Stereoscopic Camera.

This is constructed to form the lightest possible Camera, being only $1\frac{3}{4}$ inches thick when closed and weighing a trifle under $2\frac{1}{2}$ lb.

The system for converting is so arranged that the lens board and the stereoscopic division are the only parts needing alteration, and this is accomplished by our specially designed patented fittings in less than one minute.

Stereoscopic division is a rigid one, being held between two pairs of plate springs on the back frame of the Camera, and is so arranged that it lies flat for closing without removal. When, however, removal is needed for half-plate work, it is only necessary to move it obliquely until the projecting square pins are free. The removal is hereby attained instantly.

The dark slide is so constructed that it will carry either half-plate or stereoscopic ($6\frac{3}{4} \times 3\frac{1}{4}$) plates without alteration, or carriers, and gives full-size stereoscopic picture on half-plate; a great feature when travelling where regulation size stereo plates are unobtainable.

Rising Front.—Ratchet form, novel construction, reliable.

Stereoscopic Front.—Has a rack and pinion movement for adjusting the distance between lenses for close work such as flowers, etc.

Swing Back.—Reversing frame (spring fastened) turntable.

Focal Length.—Minimum, 3 inches; maximum, $9\frac{1}{2}$ inches; from focussing screen to front of lens board. If needed, minimum focus can be reduced to $2\frac{1}{4}$ inches.

Dark Slides are fitted with our special spring fasteners to shutters.

Quality.—Made of finest Spanish Mahogany, best workmanship throughout.

Price.—Including two lens boards, three dark slides and threefold rule joint tripod with sliding leg.

Aluminium Fittings	...	...	...	£12 15 0	...	Extra backs	24/9.
Brass	"	...	...	£10 10 0	...	"	21/-
Long Extension Aluminium Fittings				£14 5 0			
"	"	Brass	"	£12 0 0		Extra Backs, as above.	

The extension obtained on the long extension above, is $16\frac{1}{2}$ inches from lens board to plate.

Field Cameras.

The "N. & G.' ARCTOS" Field Camera.

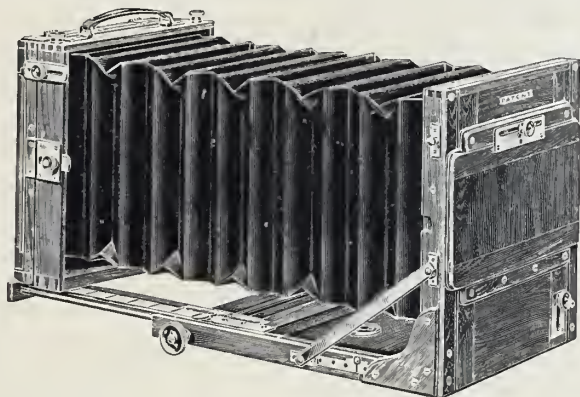


Fig. 31.

Long Extension Camera.

Parallel bellows, made of the finest quality Spanish Mahogany, fitted with improved swing, check screws to all milled heads, reversing frame, spring catch to holder, vertical and horizontal sliding fronts with brass slots, patent plate screen, backs fitted with special spring fastenings. Price includes three double backs.

Size.	Measurement Closed.	Extension.	Price.	Extra Slides.	Brass Binding.
$4\frac{1}{2} \times 3\frac{1}{4}$	...	...	£ 15 0	£ 15 9	£ 7 0
$6\frac{1}{2} \times 4\frac{1}{4}$	$8\frac{1}{2} \times 9\frac{1}{2} \times 4\frac{3}{16}$	18	8 12 6	1 0 3	1 7 0
$8\frac{1}{2} \times 6\frac{1}{2}$	$10\frac{1}{2} \times 11\frac{1}{2} \times 4\frac{1}{16}$	22	10 5 6	1 4 0	1 13 0
10×8	$11\frac{1}{2} \times 13\frac{1}{2} \times 5$	26	12 18 0	1 8 6	1 16 0
12×10	$14\frac{1}{2} \times 15\frac{1}{2} \times 5\frac{1}{2}$	30	16 10 0	1 16 0	1 19 0
15×12	$17\frac{1}{2} \times 19\frac{1}{2} \times 6\frac{1}{4}$	36	20 5 0	2 8 0	2 5 0
18×16	...	42	32 5 0	3 15 0	3 0 0
24×18	...	54	48 7 6	5 14 0	4 10 0

Wide - Angle Front.

For photographing Interiors, and Architectural subjects generally in confined situations, Wide-angle Lenses are necessary. Subjects of this kind are taken on the tripod, with the Lens stopped down, and the Automatic Shutter is not required. A special Wide-angle Front (Fig. 32) can be fitted to the "N. & G." Cameras (Patterns B, Special B) for this purpose.

PRICE of Wide-angle Double-rising Front, including alterations to Camera, and Special Automatic Flange.

$\frac{1}{4}$ -plate - - £1 5s.

5×4 - - - £1 10s.

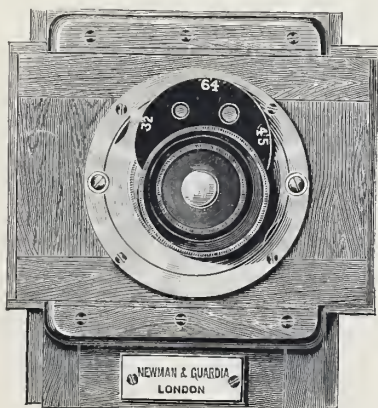


Fig. 32.

Wide angle Front, with Lens.

Prices of "Blocknotes"

No. 1 and their Accessories.

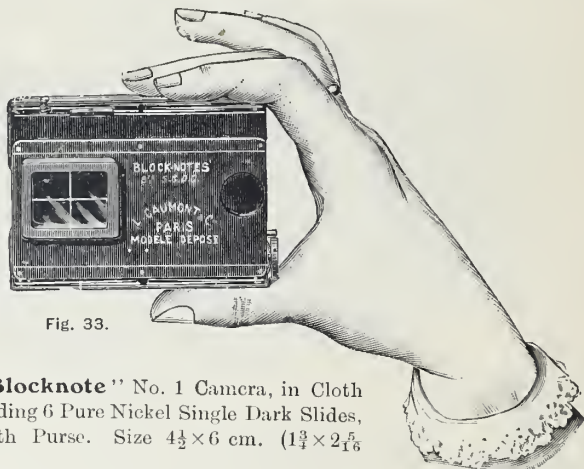


Fig. 33.

The "**Blocknote**" No. 1 Camera, in Cloth Purse, including 6 Pure Nickel Single Dark Slides, also in Cloth Purse. Size $4\frac{1}{2} \times 6$ cm. ($1\frac{3}{4} \times 2\frac{5}{16}$ ins.)

		£	s.	d.
If fitted with Darlot Rapid Rectilinear Lens	...	5	5	0
" *Anastigmat Symmetrical Darlot <i>f</i> /7.5	...	8	0	0
" Zeiss-Protar Series IIIa Lens <i>f</i> /9	...	8	0	0
" Goerz-Anastigmat <i>f</i> /6.8	...	9	9	0
" *Aplanastigmat Hermagis <i>f</i> /6.8	...	9	10	0
" Voightlander Collineaire <i>f</i> /5.4	...	10	10	0
" *Planastigmat Phos. <i>f</i> /6.3	...	9	12	0
" Tessar-Zeiss-Krauss <i>f</i> /6.3	...	9	12	0

* All these Lenses to order only.

Exchanging R.R. Lens for Tessar, £4 12 0 Exchanging R.R. Lens for Goerz, £4 9 0

The Stereoscopic "**Blocknote**" No. 1 Camera, including 6 Pure Nickel Slides in Cloth Purse.

	£	s.	d.
Fitted with Elgé Rapid Rectilinear Lens	7	10	0
" Goerz Anastigmat <i>f</i> /6.8	17	0	0
" Tessar-Zeiss-Krauss <i>f</i> /6.3	17	0	0
" Aplanastigmat Hermagis <i>f</i> /6.8	17	0	0

The 6×13 cm. Stereo "**Blocknote**" is only fitted with the Tessar-Zeiss-Krauss *f*/6.3 Lenses, 80 mm. focus, accurately paired for stereoscopic work.

Camera as above, in Purse, and 6 Pure Nickel Single Dark Slides in Purse,
 Price £19 10 0
 Weight 1 lb. 5 ozs. Measurement when closed, $6\frac{1}{2} \times 3 \times 1\frac{1}{2}$ inches.

"Blocknotes" Magazines for Plates or Flat Films.

A beautifully made simple and reliable Hand Magazine for 12 plates or films is also supplied for use with the "**Blocknote**" Camera. It fits into the same groove at the back of camera as that which receives the ordinary dark slides.

Price of Magazine, complete with 12 Sheaths :

$4\frac{1}{2} \times 6$ cm. "**Blocknote**," £3 0 0 45×107 mm. "**Blocknote**," £4 0 0

"Blocknotes" Accessories.

	No. 1 Blocknotes			No. 1 Stereo Blocknotes			No. 2 Stereo Blocknotes		
	£	s.	d.	£	s.	d.	£	s.	d.
Extra Set of 6 Dark Slides in Purse ...	0	12	6	0	15	0	0	17	6
Felt Purse with snap-fastening for Camera	0	2	6	—	—	—	0	3	0
Leather Purse „ „ „ „	0	3	6	0	4	6	0	4	6
Single Dark Slides	0	2	0	0	2	6	0	3	0
Metal Base for Tripod	0	5	0	0	5	0	0	7	6
Pneumatic Release Attachment, complete with Ball and Tube for time exposures	0	4	0	0	4	0	0	4	0
Special Antinous Release	0	3	6	0	3	6	0	3	6
Yellow Iso Screens, co-efficients 2, 6 and 20	0	5	0	0	5	0	0	6	0
Magnifiers for distances 3, 5, 6½ and 11 ft.	0	4	0	0	4	0	0	5	0
Folding View Finder for taking Sideway views	0	7	6	0	7	6	0	7	6
Leather Case to hold 4 Magnifiers or Yellow Screen	0	3	0	0	3	0	—	—	—
Leather Case to hold 3 Iso Screens and Magnifiers	—	—	—	—	—	—	0	3	0
Leather Case to hold 3 Magnifiers or Yellow Screens	0	2	6	0	2	6	—	—	—
Leather Case to hold 4 Iso Screens and Magnifiers	—	—	—	—	—	—	0	3	6
Ground Glass Focussing Screen in Frame	0	2	6	0	3	6	0	4	0
Cowhide Case for Camera and Magazine or 12 slides	0	6	6	0	17	6	—	—	—
Best quality ditto ditto ...	0	12	6	1	2	6	—	—	—
Pigskin Case with 3 compartments for Camera Magazine and 12 Slides ...	0	17	6	1	5	0	—	—	—
Best quality ditto ditto ...	1	5	0	—	—	—	—	—	—
Cowhide Case with 2 compartments for Camera and 12 slides	—	—	—	—	—	—	0	18	6
Best quality ditto ditto ...	—	—	—	—	—	—	1	5	0
Pigskin Case with 2 compartments ...	0	10	6	1	2	0	—	—	—
Best quality ditto ditto ...	0	13	6	—	—	—	—	—	—
Pure Nickel Developing Tank ...	0	4	0	—	—	—	—	—	—
Nickel Basket (to hold negatives) for Tank	0	3	6	—	—	—	—	—	—
„ „ „ for Tray	—	—	—	0	4	9	—	—	—
Drying Rack (wooden)	0	0	9	0	0	9	—	—	—
Plates, Lumiere Extra Rapid per doz.	0	0	8	0	1	1	0	1	0
„ „ Sigma „ „ „	0	0	10	0	1	6	0	1	6
„ „ Extra Rapid Anti Halo „	0	0	10	0	1	6	0	1	6
„ „ Ortho A, B, or C „	0	0	10	0	1	6	0	1	6
„ „ Ortho A, B, or C Anti Halo	0	1	3	0	2	0	0	2	3
Leucogone for removing Anti Halo, per bot.	0	0	6	0	0	6	0	0	6
Special knob for prolonged exposures ...	0	0	9	0	0	9	—	—	—
„ „ developing tray for 4 plates ...	0	1	6	—	—	—	—	—	—
Transparency Plates ... per doz.	—	—	—	0	1	1	0	1	1
Autochrome „ per box of 4 ...	—	—	—	—	—	—	0	4	6

Goerz-Anschutz

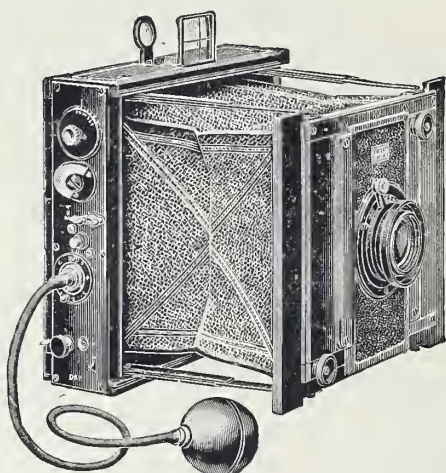


Fig 34.

Folding Camera.

Slit altered, and all speeds adjusted from the outside.

The latest model of the Goerz-Anschutz Folding Camera is fitted with an improved form of **focal plane shutter**, giving speeds from **1/1200th second to 5 seconds**, all regulated from the outside.

The **shutter is self-capping**, so that the plate or film is not exposed during setting. **Exposures can be altered before or after shutter is set.**

The camera can be fitted with Telephoto Lens and extension for use of Single Combination of Lens.

PRICE LIST.

For Plates	$4\frac{1}{4} \times 3\frac{1}{4}$	5×4	Stereoscopic Post Card. $6\frac{3}{4} \times 3\frac{1}{4}$	$6\frac{1}{2} \times 4\frac{3}{4}$
Goerz-Anschutz Folding Camera complete with Goerz "Color" Lens <i>f</i> /4.8. Three Double Dark Slides and Case	£ s. d. 13 19 0	£ s. d. 14 19 0	£ s. d. 23 6 0	£ s. d. 18 2 0
Do., do., with Goerz "Dagor" <i>f</i> /6.8, do.	13 14 0	14 19 0	22 16 0	18 2 0
Do., do., with Goerz "Syntor" <i>f</i> /6.8, do.	11 14 0	12 4 0	18 14 0	15 2 0
Do., do., with Goerz "Pantar" <i>f</i> /6.3, do.	16 9 0	18 4 0	—	21 17 0
Extra double Dark Slides, each	0 12 0	0 12 0	0 16 0	0 16 0
Plates Changing Box for 12 plates	2 0 0	2 0 0	2 8 0	2 8 0
Roller Holder	1 10 0	1 10 0	—	2 0 0
Film Pack Adapter	1 0 0	1 0 0	—	1 5 0
*Extension for use of Back Combination of Lens and Telephotography	1 10 0	1 10 0	2 5 0	2 0 0
Telephoto Attachment for "Celor" listed above	3 12 6	4 0 0	†3 12 6	5 5 0
Telephoto Attachment for "Dagor" or "Syntor" listed above	3 10 0	3 12 6	†3 10 0	5 0 0
Telephoto Attachment for "Pantar" listed above	3 12 6	5 0 0	—	5 15 0

* When ordered subsequently to delivery of camera a charge for fitting is made.

† For use with one Lens only.

"Palmos" Stereoscopic Cameras.

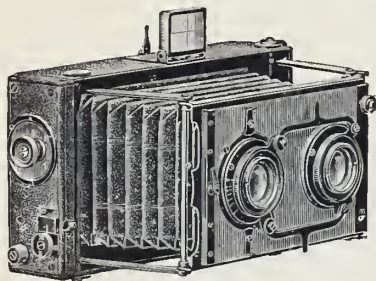


Fig. 35.

The "Minimum Palmos."

9 × 18 cm. or 6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ ins.

For Stereoscopic and Panoramic Views. Fitted with 2 Zeiss "Tessar" Lenses *f*/6.3, complete with 3 Double Dark Slides and Leather Case.

Price £22 9 0

The "Stereo-Palmos."

For 9 × 12 cm. and 3 $\frac{1}{4}$ × 4 $\frac{1}{4}$ in. Plates. Fitted with 2 Zeiss "Tessar" Lenses *f*/6.3. Complete with 3 Double Dark Slides and Leather Case.

Price £19 12 0

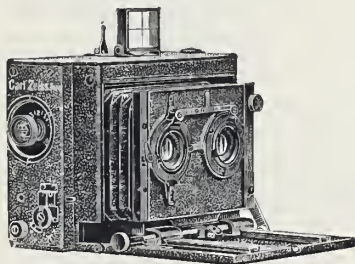


Fig. 36.

Zeiss Telephoto Camera.

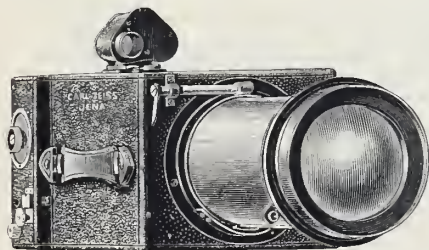


Fig. 37.

VERY finely finished Camera capable of doing **Best** Telephoto Work in a Compact Form.

Zeiss Telephoto Lens working at *f*/10, with a focal length of 32 ins., and covering a quarter-plate or 9 × 12 cm. plate.

View finder is a Zeiss Monocular Field Glass of a magnification of ×4. The Camera is fitted with a focal-plane shutter for time and instantaneous exposures.

Price complete, £45 0 0

THE ATKIN SWAN (Folding) TILTING TABLE

for Telephoto Work.

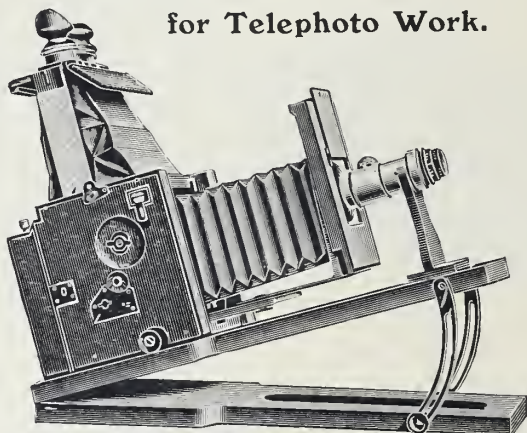


Fig. 38.

The Atkins Swan Tilting Table with "N & G" Square Reflex in position.

A cleverly designed Tilting Table, by Dr. Atkin Swan, which should prove invaluable to those interested in Telephotography. The idea is entirely founded upon practical requirements, and considering Dr. Atkin Swan is such a successful worker, and whose work is so well known, the Apparatus can be offered with every confidence.

Price complete, including fitting to any suitable form of Camera, £1 15 0.

The "N & G" Folding Enlarger.

Model A.

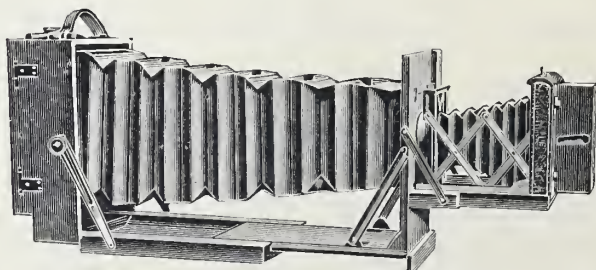


Fig. 39.

Enlarger with "Sibyl" Camera in position.

The "N & G" Folding Enlarger has been specially designed to meet the demand for a simple and portable form of Apparatus for use with the small Pocket Cameras so much now in vogue.

It is supplied complete and ready for immediate use either for $3\frac{1}{2} \times 2\frac{1}{2}$ plate or $\frac{1}{4}$ -plate "Sibyl" Models, and to enlarge either to $\frac{1}{2}$ -plate or whole plate. The Instrument is made of Mahogany, blacked, and is of the most perfect workmanship and finish throughout.

The "N & G" Folding Enlarger.

Model B.

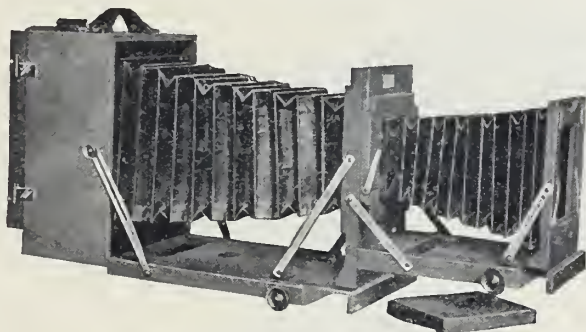


Fig. 40.

The "N. & G." Folding Enlarger, Model A, is supplied ready to take either of the "Sibyl" Models, and all that is necessary to attach the Camera to the Enlarger is to slide the Base into position on the rails provided with the small Base-board in the front of the Enlarger. The Shutter of the Camera can be used in the ordinary way, and an extension at the back of the Camera (*see* Fig. 39) allows the necessary distance between the Plate and the Lens.

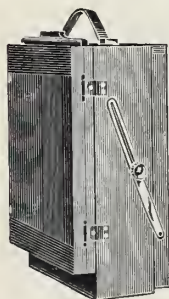


Fig. 41.
Enlarger folded.

Model B, is a very much improved Model, having a further Camera addition to take the negative direct, without the use of the "Sibyl" or other Camera. Its completeness may be more fully appreciated when it is considered that the Apparatus can be used both for Enlarging and Reducing, and is provided with the necessary dark slides, focussing screens and negative carriers.

PRICES.

MODEL A.

The New Folding "N. & G." Enlarger to $\frac{1}{2}$ -plate.

				$\frac{1}{2}$ -plate.
"Sibyl" $\frac{1}{4}$ -plate	...	...	£3 15 0	£4 5 0
„ $3\frac{1}{2} \times 2\frac{1}{2}$ plate	...	...	3 5 0	3 17 6

Small extra charge for fitting other forms of Cameras.

MODEL B.

					$\frac{1}{2}$ -plate.
$\frac{1}{4}$ -plate or $3\frac{1}{2} \times 2\frac{1}{2}$ ...	...	...	...	...	£7 17 6

The "N. & G." . . . Enlarging Camera.

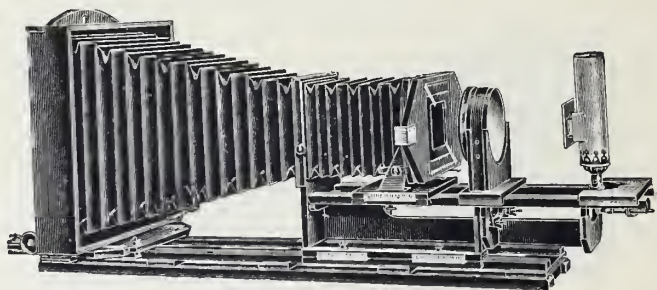


Fig. 42.

THE "N. & G." Enlarging Camera is a high-class Instrument which enables the Worker to **Enlarge, Copy, or Reduce** his Negatives without loss of time, and with the certainty of obtaining *Perfect Results*. It is supplied complete for Enlarging from $\frac{1}{4}$ and $\frac{1}{2}$ -plate Negatives or Transparencies up to $\frac{1}{4}$ plate and 15×12 , on Glass or Paper; and, with additional Carriers, it will take all intermediate or smaller sizes. The Instrument is made of Mahogany, blacked, and is one of the most perfect Workmanship and Finish throughout.

General Description.—The "N. & G." Enlarging Camera consists of a strong Baseboard, supporting at one end the special apparatus for holding and adjusting the negatives, a 15×12 in. Camera at the other end, and the Lens and Shutter-board in the centre. All these parts are connected by means of strong Bellows; no light can, therefore, enter the Camera except through the negative.

Specification.—*Triple Adjustments* for regulating the degree of enlargement or reduction, with Clamping Nuts to fix the Parts in any Position. *Rack and Pinion Focussing.* *Square Negative Holder*, detachable from the Camera; centres automatically any part of the negative, and provides adjustments for correcting lines out of the perpendicular in Vertical or Horizontal Pictures. *Any Lens*, from $\frac{1}{4}$ to $\frac{1}{2}$ -plate size can be used. *Flap Shutter*, actuated from outside, and working without vibration. *'Solid' Dark Slide* of special construction ensuring great strength; the Shutter pulls right out and the Back is detachable. *Plate Glass* and Backing-board for holding Bromide Paper of any size absolutely flat and in any position. *Ground-glass Screen* in strong quick-changing Frame. *Reversing Back.* *Rigid Baseboard*, built on "N. & G." Standard System allowing the Parts to be instantly fixed in any position.

The "N. & G." Enlarging Camera provides the only method of producing Enlargements in which the fine detail of the original negative is not lost through vibration or the imperfect parallelism of the parts. It forms *One Rigid Whole* which can be tilted at any angle without upsetting its adjustment. It is always ready, can be used anywhere,

and gives, with the greatest ease, Enlargements in every way superior to the old methods of Dark-room or Lantern-and-Easel enlarging. It can be used either with Daylight or any kind of Artificial light.

Price. —Complete for Enlarging from $\frac{1}{2}$ -pl. to 15×12 in. Including One Slide, Focussing Screen, and Two Extra Carriers (Without Lens)		£13 10 0
Zeiss Ser. Iib., No. 4 “Tessar” Lens $f/6.3$		£4 15 0
$\frac{1}{4}$ -Plate Attachment for Artificial Light, including $5\frac{1}{2}$ -in. Condenser, Lamp for Paraffin, or Incandescent Alcohol, or Electric (Nernst) Light, and Detachable Baseboard Extension		£4 4 0
The same with Incandescent Gas Jet, with Aluminium Cover		£5 5 0

The “N. & G.” LANTERN-SLIDE. REDUCING CAMERA

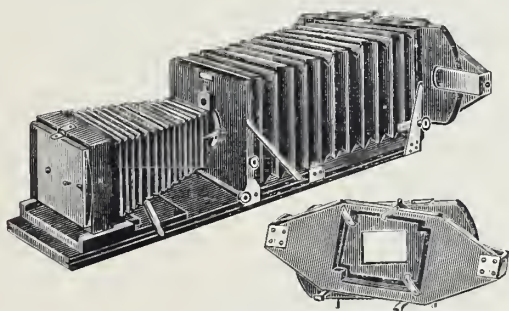


Fig. 43.

THE “N. & G.” Reducing Camera is an Instrument every detail of which has been carefully considered and constructed to attain the object in view—the production of technically perfect Slides with a minimum of trouble.

This Apparatus, as regards its general design, is practically a miniature of the “N. & G.” Enlarging Camera. It reduces $\frac{1}{4}$ -plate (or $\frac{1}{2}$ -plate) to $3\frac{1}{4} \times 3\frac{1}{4}$. Any lens of about $5\frac{1}{2}$ in. equivalent focus may be used; with a $5\frac{1}{2}$ in. Lens the entire image can be *reduced* to half the size, or any small detail *enlarged* up to two diameters.

Daylight, or any Artificial Light, may be employed for reducing with this Camera. All the adjustments are easy, and the Instrument is exceedingly light and small, and can be placed anywhere. These features render the production of Lantern Slides, by means of the “N. & G.” Reducing Camera, a perfectly simple and delightful occupation.

Price. —Complete for Reducing from $\frac{1}{4}$ -plate, with one $3\frac{1}{4} \times 3\frac{1}{4}$ in. Dark Slide, and Focussing Screen ...		£6 0 0
The same, for Reducing from $\frac{1}{2}$ -plate		£7 0 0
Zeiss Ser. Iib., No. 4 “Tessar” Lens $f/6.3$		£4 15 0
Extra Dark Slides each		£0 7 6

Enlarging Lanterns.

"OPTIMUS."

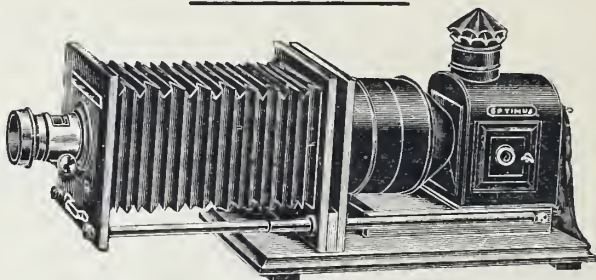


Fig. 44.

THIS instrument has been specially designed to meet the requirements of the expert photographer, being provided with extra extension of bellows and lamp adjustment. The base, front and stages are made of well-seasoned Mahogany; the brass work is beautifully polished; the bellows is of durable leather, and the body is of best Russia Iron. The Lamp container is so arranged that it will take oil lamp, incandescent gas burner, acetylene gas burner, lime-light jet or arc, or incandescent electric lamp.

Prices of above for Oil, or Incandescent or Acetylene Gas:—

Diam. of Compound Condenser	5½in.	6in.	6½in.	7in.	8in.	9in.	10in.	11in.	13in.
Price without front Lens	115/-	120/-	135/-	145/-	160/-	200/-	270/-	320/-	500/-

"OPTIMUS."

Cantilever Enlarging Apparatus
and Platform and Easel.

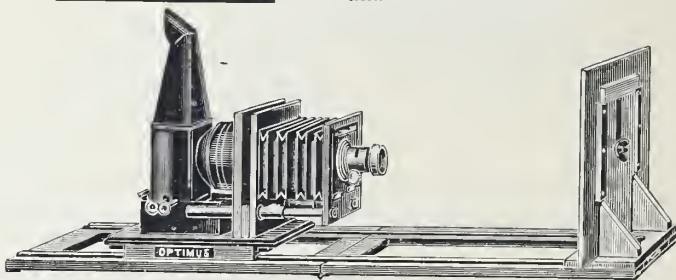


Fig. 45.

"OPTIMUS" Cantilever Enlarging Apparatus is finished in the best and most practical style. The base, stage and front are made of well-seasoned Mahogany; the brass work is beautifully polished, the bellows of durable leather, and the lamp and cowl of best Russia Iron, the optical system being of the best.

Prices fitted for either Oil or Incandescent or Acetylene Gas:—

Diam. of Compound Condenser	5½in.	6in.	6½in.	7in.	8in.	9in.	10in.	11in.
PRICE without front Lens	75/-	80/-	92/-	98 -	110/-	150/-	200/-	260/-
Extra for A series front Lens	27/-	37/-	37/-	37/-	63/-	63/-	105/-	105/-

Fine Screw Focussing Adjustment to any size Cantilever 12/6

Prices of complete apparatus as shown in diagram, but without the Enlarger, consisting of rails on strong frame, with platform and easel 15 in. x 15 in. ... 35/-

Ditto ditto with easel 20 in. x 20 in. ... 42/-

"Optimus" Easels.—Made of best Pine Wood; mounted on solid bases and having heightening and lowering adjustments.

For Enlargements up to—	15 by 15	20 by 20	25 by 25	30 by 30	36 by 36
	12/6	18/-	22/-	26/-	—
Same as above, but with Rack Adjustment	18/6	25/-	30/-	37/-	—
If with Swing...	30/-	35/-	45/-	55/-	65/-

Adjusting rods to hold plates can be fitted to any of the above easels at an extra cost of 7/6.

Prices of "Nernst" Lamps.



Fig. 46.

nickel, which can be moved to and from the light.

Burners and Reflectors, 14/-

Cast-iron Tray with special upright, 3/-.
Mantles, each, 1/-

The "Nernst" Electric Lamp.

	According to Voltage.		
	500—1,000 C.P.	300—500 C.P.	35—60 C.P.
Lamp complete, with connecting cord and without tray	45/-	30/-	18/6
Extra, Burner	10/-	5/-	2/6
Resistances	2/6	2/-	1/3
Filaments	2/-	2/-	2/-

In ordering it is necessary to state voltage, and whether for direct or alternating current.

B. Type.

Complete Lamp, or with Screw Socket fitted with Clear or Frosted Globe, for

$\frac{1}{4}$ amp. ...	96 to 150 volts. ...	5/- each
$\frac{1}{4}$ " ...	196 to 250 volts. ...	5/- "
$\frac{1}{2}$ " ...	96 to 150 volts. ...	5/- "
Or with opal globe		5/6 "

Spare Burners, $\frac{1}{4}$ or $\frac{1}{2}$ amp. ...	1/6 each
Spare Resistances, $\frac{1}{4}$ or $\frac{1}{2}$ amp. ...	9d. "
Spare Globes, clear or frosted ...	1/- "
Spare Globes, opal	1/6 "
Spare Bodies for $\frac{1}{4}$ or $\frac{1}{2}$ amp. B. Type	2/- "
Pole Testers	1/6 "

We now supply this lamp, fitted on a Lantern Tray, with the lamp in a vertical position, and complete with specially designed shade with diffusing glass. This lamp is a most useful and efficient illuminant for Enlarging, etc.

Specially suitable for "N. & G." and other Enlarging Cameras.

The B. Type "Nernst" Lamp replaces one or two Ordinary Incandescent Lamps, and fits into ordinary holders and shades.

"N. & G." Alcohol Vapour Lamp.

A powerful light requiring no attention. Complete on Tray, 17/6.

Inverted Incandescent Gas Burner.

This Burner is strongly made in brass, with "Bunsen" air adjustment. It is fitted with clamping screws for adjusting the height, with tray and a reflector of pure

nickel, which can be moved to and from the light.

Cast-iron Tray with special upright, 3/-.

Mantles, each, 1/-

ZEISS LENSES.

TWENTY years have elapsed since the **Zeiss Works** embraced the manufacture of Photographic Objectives. Their entry in the market marked an enormous advance in lens construction by the introduction of the first objective in which the errors of astigmatism had been overcome. Hence this objective was named the "**Zeiss Anastigmat.**"

As a consequence, there arose a general desire to see the same perfection achieved in objective "sets," a name given to a class of objective existing already in the earlier history of Photographic Optics, whose single lenses, which could be utilised separately as objectives of long focus, were capable of being combined in the form of doublets. In the Anastigmat lens 1:12.5, subsequently renamed the "**Protar**" Lens, and which was preceded by the Anastigmat 1:14 of the year 1891, this end was then already attained in so satisfactory a manner that to-day, notwithstanding a lapse of 16 years, these lenses, known as the Series VIIa. "**Double Protar**" 1:6.3 are still unequalled as objective sets.

The unsymmetrical Zeiss Anastigmats, afterwards called "**Protars**," were developed in various directions, and as rapid objectives having apertures of 1:6.3, 1:3 and 1:9, and wide angle objectives with an aperture of 1:18, remained in regular manufacture for twelve years, and are partly still being produced. It was only for very large apertures such as 1:3.5, 1:4.5 that the later type of lenses, "**Planars**" and "**Unars**," proved superior.

In 1902, however, Dr. Rudolph computed the "**Tessar**," which type of objective immediately gained a remarkable reputation. Despite its simple construction (which, however, ensured a uniform production), the "**Tessar**" proved far superior to all other types, owing to its wonderful sharpness and brilliancy of the image. As the small Camera advanced in popularity and the demand for short focus objectives correspondingly increased, these qualities became more highly appreciated on account of the great scope they provided for successfully enlarging from the smallest negatives. The "**Tessar**" was constructed at first as a Universal objective with an aperture of 1:6.3, and as a Reproduction objective with apertures varying from 1:10 to 1:15, and as a consequence other types of lenses having these apertures were forced to the background. Soon afterwards, in 1907, its beforementioned special qualities were turned

to further advantage in the production of two more series of "Tessar" lenses of specially large apertures, 1:3.5 for Cinematography, Portraiture and kindred purposes, and 1:4.5 as an **extremely rapid universal objective**. These two series have since monopolised the market for rapid anastigmats.

Thus, the "Tessar" lens serves the needs of almost every branch of photography, and only for very few special purposes need recourse be had to different types of lenses. For Micro-photography, for instance, the "Planar," with an aperture of 1:4.5 is requisitioned, and for Architecture the wide angle "Protar" 1:18 should be utilised, while those objectives that can be formed into sets will always find a demand because of their double universality.

It is almost unnecessary to say the "Tessar" is also very suitable for use as the positive element in a Telephoto combination, so that the photographer who uses a "Tessar" F4.5 or F6.3 in his ordinary work need only add a Zeiss adapter with negative lens, and the door of a new and most valuable, besides intensely interesting, branch of photography is opened to him. Unfortunately, the usual Telephoto combinations, possessing only an available aperture of 1:30 are restricted in their work to time exposures. But the demand for a rapid Telephoto objective which permitted the taking of snapshots has, nevertheless, quite recently been met by the construction of the Zeiss "**Magnar**" objective, made in two models. When it is fully appreciated that the first of these models has a focal length of nearly half a yard, yet may be used on a simple quarter-plate camera, and that with the second model, which possesses a focal length of almost one yard, it is possible to take snapshots in the open and secure figures three to six times as large as are obtained with an ordinarily equipped hand camera, one must recognise that only now, by the aid of the "Magnar," has it been rendered easy for the amateur to pursue those branches of photography such as the taking of Genre pictures, Portraiture, Animal photography, etc., which are of all the most grateful, and yield him the best recompense for his work.

With the advent of the present year the Zeiss Works have taken up the manufacture of the new symmetrical lens "**Double Amatar**," working at 1:6.8. This lens possesses one very important advantage characteristic also of the "Double Protar," i.e., the back lens may be used singly on cameras with double extension. Great importance has been laid on the correction of the doublet, and the result is an exceptionally good crispness and flatness of image. The "Double Amatar's" components consist of three lenses each, instead of, as in the case of the "Protar," four lenses, cemented together, and there is consequently a not inconsiderable economy in price.

Lenses.

Manufactured by Carl Zeiss, Jena.

THE ZEISS "TESSAR."

Series Ic. f/4.5.

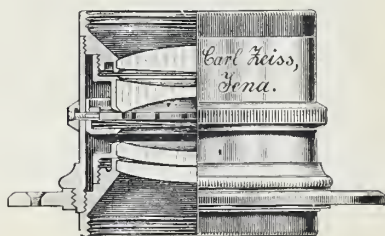


Fig. 47.

Simplicity in design, exquisite definition and brilliancy of the image, render the Series Ic. particularly suitable for **the shortest instantaneous photography.** This new series can be highly recommended for **photography in natural colours,** since the colour correction is of a very high order.

"Tessar" I: 4.5 For Instantaneous Cameras, Portraits, Groups in the Studio, Enlargements and Projection.

Series and No.	Code Word.	Equivalent Focus.		Size of Plate recommended. in. × in.	Prices in Standard Mount with Iris Diaphragm.
		mm.	in.		
Ic. 13	Adedisti	112	$4\frac{3}{8}$	$3\frac{1}{2} \times 2\frac{1}{2}$	£ 5 0 0
Ic. 15	Adefaghi	150	6	$4\frac{1}{4} \times 3\frac{1}{4}$	6 10 0
Ic. 15a	Adefagia	180	$7\frac{1}{8}$	$6\frac{1}{2} \times 4\frac{3}{4}$	8 0 0
Ic. 16	Adefesios	210	$8\frac{1}{4}$	7×5	10 0 0
Ic. 17	Adegerant	250	10	8×5	16 0 0

THE ZEISS "TESSAR."

Series IIb. f/6.3.

The "Tessar" is specially noteworthy for its sharp and brilliant definition, combined with a covering power over a field of great angular extent. It is equally suitable for **snapshots, portraiture and groups,** as for **landscapes, enlargements and projection.** The negatives obtained are particularly suitable for subsequent enlargement. The relative aperture is 1 : 6.3 and the available angle is one of about 70°.

Series and No.	Code Word.	Equivalent Focus.		Size of Plate recommended. in. × in.	Prices in Standard Mount with Iris Diaphragm.
		mm.	in.		
IIb. 3	Adescarent	112	$4\frac{3}{8}$	$2\frac{3}{8} \times 3\frac{3}{8}$	£ 4 10 0
IIb. 4	Adescassi	136	$5\frac{3}{8}$	$3\frac{1}{4} \times 4\frac{1}{4}$	4 15 0
IIb. 5	Adescavamo	150	6	4×5	5 0 0
IIb. 5a	Adeschero	180	$7\frac{1}{8}$	$4\frac{3}{4} \times 6\frac{1}{2}$	7 0 0
IIb. 6	Adesco	210	$8\frac{1}{4}$	5×7	8 10 0
IIb. 7	Adesivo	255	10	5×8	11 10 0
IIb. 8	Adesmie	305	12	$6\frac{1}{2} \times 8\frac{1}{2}$	17 0 0



LITTLE OWL.

F. Martin Duncan, F.R.P.S.

Reproductions

OF WORK DONE WITH THE

"N. & G." Cameras

All the pictures in this supplement are reproduced from negatives taken with "N. & G." Cameras. They are published to show the quality of work possible with these cameras, and are selected to represent all kinds of subjects and under all sorts of conditions.



SQUIRREL.

F. Martin Duncan, F.R.P.S.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



PIED WAGTAIL STANDING ON SHOULDERS
OF YOUNG CUCKOO.

The Arrival.

Smith Whiting.



The Meal.

Smith Whiting.



NEVER SATISFIED.

Smith Whiting.



SPARROW HAWK AT NEST WITH YOUNG.

Smith Whiting.



Photo by Robert Waugh.



High Speed Work.

Robert Waugh.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON

Taken with a Nydia Camera.



By Bert Vasco.

DORANDO FINISHING IN THE GREAT MARATHON RACE AT STADIUM.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



W. B. Davenport.



Wonderful High-speed Work with an "N. & G." S.R. Reflex Camera.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS

NEWMAN & GUARDIA, LTD.,
LONDON.



Taken with an "N. & G." S.R. Reflex.

W. B. Davenport.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



PICKING UP THE DINGHY.

Frank Bolwell.



A CHARMING VIEW.

W. Cutlack.

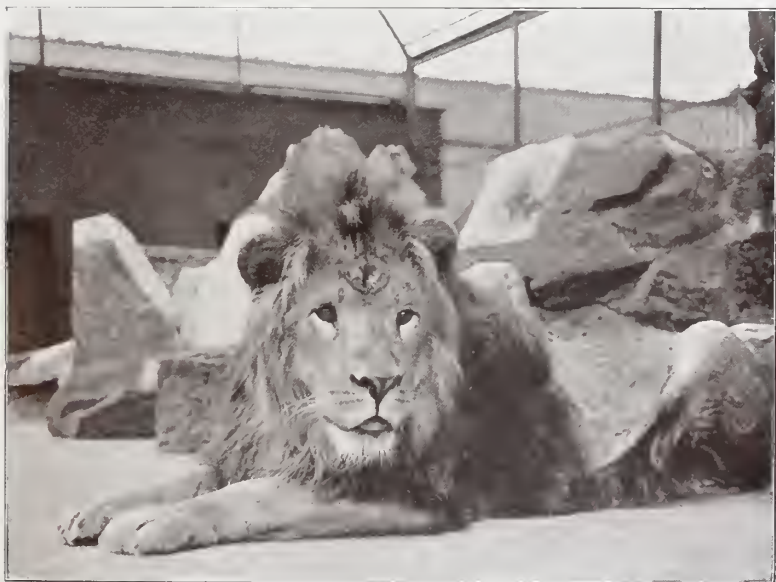
SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



ANIMAL STUDY.

T. Farmer Hall.

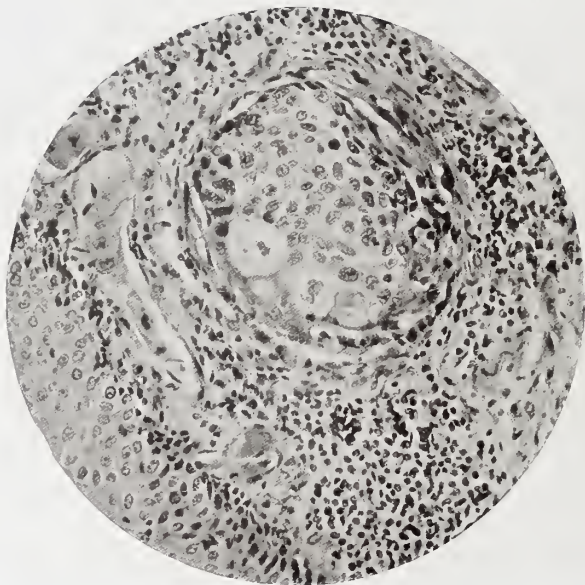


ANIMAL STUDY.

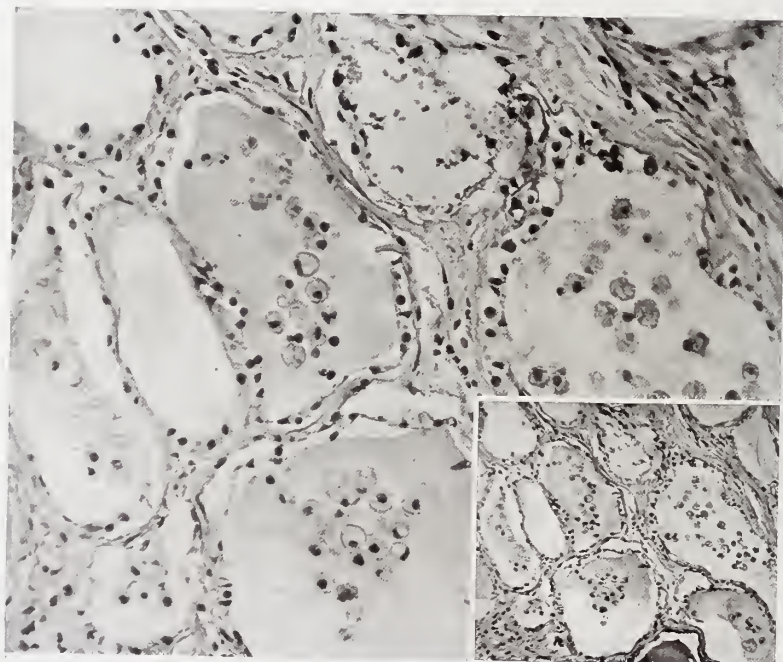
T. Farmer Hall.

Photo-micrography with an "N. & G." S.R. Reflex

By H. Morriston Davies.



CANCER OF THE OESOPHAGUS, 400 MAGNIFICATIONS.



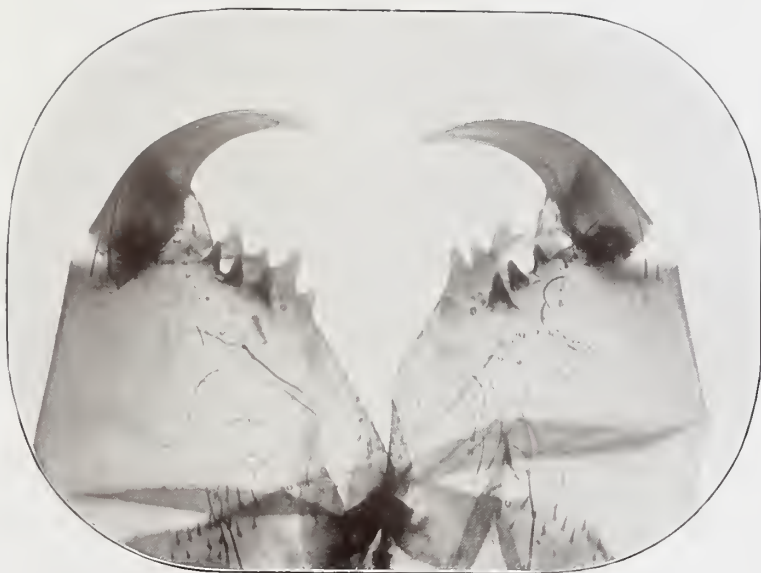
THYROID GLAND (Proliferation of the lining membrane) 100 MAGNIFICATIONS AND 400 MAGNIFICATIONS.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.
LONDON.

Photo-micrography with an "N. & G." Special B. Camera.

By A. L. Isenberg.



JAWS OF A SPIDER.



PROBOSCIS OF BLOW FLY.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



A. L. Isenberg

THE SPHINX.



F. K. Chapman

ON THE THAMES.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD
LONDON.



By Marquis de la Seda.

Wonderful Balloon Photograph taken with an "N. & G." Reflex.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



'MIDST NATURE'S GRANDEUR.

J. Appleby.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



AMONG THE SURREY HILLS.

W. Pinfold.



DULVERTON BRIDGE, EXMOOR.

Basil E. Lawrence.

All taken
with small
"Sibyl"
Camera.



NEAR TITLIS.

B. L. Lawrence.



"I DON'T LIKE IT."

F. Keen Purchase.



DROITWICL.

F. C. Lambert, M.A., F.R.P.S.



CHUMS.

H. F. Parrshall.



LOOK OUT.

L. G. Johnston.



DOLLY (CHIMPANZEE).

Dr. Kutzinsky, Kohn A. Rh.



A STUDY IN BLACK.

A. L. Isenberg.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



ENTERING YARMOUTH HARBOUR.

John H. Anderson.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



BOTOLPH CLAYDON, B. CKS.

By Basil E. Lawrence.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARCIA, LTD.,
LONDON.



CURLING (ST. MORITZ).

W. Cutlack,



SAFETY LIFE-BOAT WHICH CROSSED THE NORTH SEA.

Frank Bolwell,

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



IN NORWAY.

Rev. W H Mackinnon.



MADEIRA.

A. H. Franklin.



OFF GORLESTON.

By Thos. Peacock.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS,

NEWMAN & GUARDIA, LTD.,
LONDON.



GRANDE CHARMOZ, CHAMONIX.

Dr. C. Atkin Swan.



IN NORWAY.

Rev. W. H. Mackinnon.



L. G. Johnston.

IN HAREOUR.

SPECIMEN OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON.



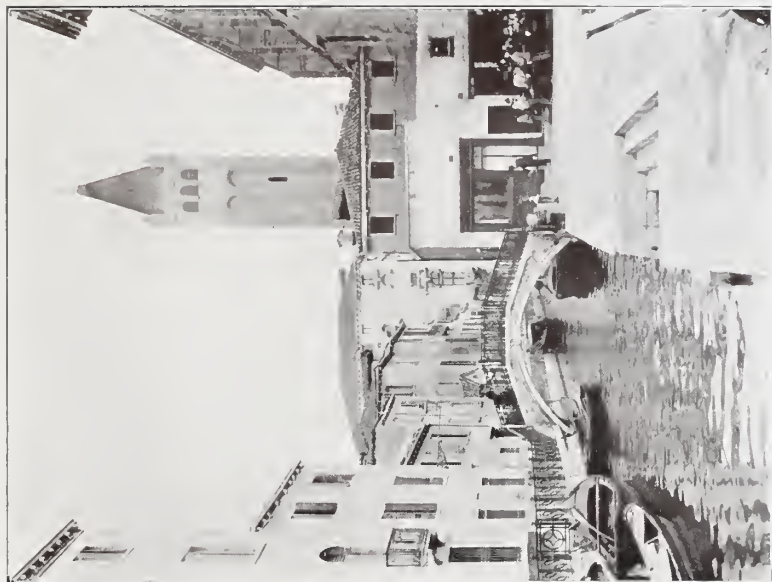
Examples of
Record Work on
 $3\frac{1}{2} \times 2\frac{1}{2}$ Plates.



L. G. Johnston.



Droitwich. Rev. F. C. Lombart, M.A., F.R.P.S.



Dr. C. Attilio Segan.

S. BURNABA, VENICE.



F. K. Chapman.

STREET IN MESSINA (Destroyed in Earthquake).



THE VILLAGE SMITH.

R. M. Cocks



IN SURREY LANES.

C. Walters.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
LONDON



ABOVE THE CLOUDS ON THE STANSERHORN.

Photos aken with
 $3\frac{1}{2} \times 2\frac{1}{2}$ "Sibyl"
 Camera.

By Percy G. Mason.



HOTEL DE PUYS, NEAR DIEPPE.



ROMAN CATHOLIC CHURCH, ANDERMATT.

SPECIMENS OF WORK DONE WITH
 "N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.,
 LONDON.



IN THE COUNTRY.

R. M. Cochs.



IN THE TAGUS, LISBON.

A. H. Franklin.



WEED BURNING.

J. H. Anderson.



KURSAAL GARDENS, INTERLAKEN.

A. H. Franklin.



HARLECH CASTLE.

L. G. Johnston.



TAORMINA THEATRE AND MOUNT ETNA, SICILY.

Basil E. Lawrence.

SPECIMENS OF WORK DONE WITH
"N. & G." CAMERAS.

NEWMAN & GUARDIA, LTD.
LONDON.

Lenses.

Manufactured by Carl Zeiss, Jena.

ZEISS LENSES—Series VII and VIIa.

"PROTAR"-LENSES AND "DOUBLE-PROTARS."

Series and No.	Code Word.	Equivalent Focus. in.	Largest Aperture.	Size of Plate recommended. in. x in.	Combination of "Protar" lenses, Series VII.		Prices in Standard Mount with Iris Diaphragm.
					Front lens Focus. in.	Back lens Focus. in.	
" PROTAR " LENSES.							
VII. 0	Aprobata	4	11	2½ x 3½	—	4	£ s. d. 4 10 0
VII. 00	Aprobando	5 ⁵ / ₁₆	11	2½ x 4	—	5 ⁵ / ₁₆	4 10 0
VII. 000	Aprobare	6 ³ / ₈	11	3½ x 4½	—	6	4 10 0
VII. 1	Approches	7 ¹ / ₈	12.5	4½ x 6	—	7	3 15 0
VII. 2	Approctome	8 ¹ / ₈	12.5	5 x 7	—	8 ⁷ / ₈	4 5 0
VII. 3	Aprontamos	11 ¹ / ₈	12.5	6½ x 8½	—	11	5 0 0
VII. 4	Aprontas	13 ³ / ₈	12.5	8 x 10	—	13 ³ / ₈	6 0 0
VII. 5	Apronto	16½	12.5	10 x 12	—	16½	7 15 0
VII. 6	Apronadio	18 ³ / ₈	12.5	11½ x 13½	—	18 ³ / ₈	10 15 0
" DO UBLE - PROTARS."							
VIIa. 000	Appodierai	4	6.3	2½ x 2½	6 ³ / ₈	6 ³ / ₈	8 5 0
VIIa. 1	Appogiare	4½	6.3	2½ x 4	7½	7½	6 15 0
VIIa. 2	Appoggio	4½	7.0	3½ x 4½	8½	7½	7 5 0
VIIa. 3	Appointing	5	7.7	4 x 5	11½	7½	8 0 0
VIIa. 4	Appollaia	5	6.3	4 x 5	8½	7½	7 15 0
VIIa. 5	Appomicio	5½	7.0	4½ x 6	11½	8½	8 10 0
VIIa. 6	Apponendo	6½	7.7	5 x 6	13½	8½	9 10 0
VIIa. 7	Apponeva	6½	6.3	5 x 6½	11½	11½	9 4 0
VIIa. 8	Appongo	7	7.0	5 x 7	13½	11½	10 4 0
VIIa. 9	Apponitur	7½	7.7	5 x 8½	16½	11½	11 19 0
VIIa. 10	Appoppando	7½	6.3	5 x 8½	13½	13½	11 3 0
VIIa. 11	Appoppassi	8½	7.0	6½ x 8½	16½	13½	12 18 0
VIIa. 12	Appoppava	9½	7.7	6½ x 8½	18½	13½	15 18 0
VIIa. 13	Apporre	9½	6.3	6½ x 8½	16½	16½	14 12 0
VIIa. 14	Apporrekti	10	7.0	7 x 9	18½	16½	17 12 0
VIIa. 15	Apporrommi	10½	7.7	7 x 9	23½	16½	20 12 0
VIIa. 16	Apportais	10½ ³ / ₁₆	6.3	7 x 9	18½	18½	20 9 0

ZEISS LENSES—Series V. f/18.

A Wide Angle Objective for Architecture, Interiors, and Photogrammetric Work, also for Reproduction.

The following numbers of this Series embrace an angle of over 110 degrees, and are, therefore, Wide Angle Objectives in the fullest sense of the term.

Series and No.	Code Word.	Equivalent Focus.		Size of Plate covered. in. × in.	Prices in Standard Mounts with Iris Diaphragm.
		mm	in.		
V. 0	Agrodromo	40	1½	2 × 2½	£ s. d. 3 4 0
V. 00	Agrolle	62	2½	2½ × 3½	3 4 0
V. 1	Agrologo	86	3½	3½ × 4½	3 4 0
V. 2	Agromane	112	4½	4½ × 6	3 4 0
V. 3	Agromayze	141	5½	5 × 7	4 0 0
V. 4	Agromonico	182	7½	6½ × 8½	5 0 0
V. 5	Agromomo	212	8½	8 × 10	6 5 0
V. 6	Agropyron	265	10½	9 × 12	7 15 0

Ross Homocentric Lens.

THE Homocentric is the Universal Lens, because its corrections are perfect to a degree that is not generally met with in photographic systems, and being made in series of different relative aperture, every class of work is possible when a proper selection is made.

The definition of the lens is sharp and brilliant, and this over the whole field, even with the largest aperture. This ideal definition results from the peculiar property, hitherto unattained, that this lens possesses of converging all rays of light emanating from any one point again to one point in the image.

The residuum of secondary spherical aberration being most perfectly eliminated, the fineness of detail is preserved and the colour correction is so complete that the different coloured images are identical in size and position, securing the absolute same focus for all diaphragms.

These properties, combined with flat field, absence of Coma and Astigmatism, insure the most satisfactory results being obtained, and that under all circumstances.

The following short extracts from appreciative letters received give some idea of the variety of subject for which the lens is suitable, and the high esteem in which it is universally held:—

"The finest lens brought out of recent years."

"Has no equal for Critical Defining Power."

"It is 'Unbeatable.' The Definition is superb."

"Brilliant Negatives with Details finely marked."

"Definite Advantages, exceeding even our Critical Expectations."

"A splendid Lens, especially for Colour Work."

"A powerful Lens. Tried it for various purposes."

"For Process Work there is nothing to equal it."

"A Happy Combination of attributes—Perfection of Optical Qualities and Moderate Cost."

The **HOMOCENTRIC LENSES** are admirably adapted for the **SQUARE REFLEX CAMERA**, the Special B Pattern and the new **"TRELLIS"** Camera.

Series II. Homocentric $f/5.6$, for Snapshot and Camera work, Portraits, Groups, Instantaneous Pictures and for Cinematograph and Lantern Projection.

Series III. Homocentric $f/6.3$, for Snapshots, Hand Cameras, Instantaneous Views and Groups, and all work requiring quick exposure.

Series IV. Compound Homocentric $f/6.8$ for outdoor work generally, for Views, Groups, Architecture, and all Wide Angle Work.

Lenses.

ROSS' Patent Homocentric Lenses.

"HOMOCENTRIC" signifies the ideal definition obtained when all rays of light emanating from any one point of the object are converged by a lens again into one point in the image.

The HOMOCENTRIC Lens possesses this definition to a degree hitherto unattained, and hence the name "Homocentric."



Fig. 48.

ROSS' Patent Homocentric Lenses.

SERIES C. f/6.3.

For Instantaneous Views and Groups and Snap-Shot Hand Camera Work.

RATIO OF STOPS:—

f/6.3 f/8 f/11.3 f/16 f/22.6

SERIES II. f/5.6. Specially constructed for Portraits, Groups, Instantaneous Pictures and Snap-Shot Hand Camera Work.

RATIO OF STOPS ... f/5.6 f/8 f/11.3 f/16 f/22.6

No.	Equiv. Focus.	PLATE COVERED.		PRICE.			Code Word.
		Full Aperture.	Medium Stops.	In Iris Setting.			
				£	s.	d.	
B 1	5 inch.	$4\frac{1}{4} \times 3\frac{1}{2}$	$4\frac{3}{4} \times 3\frac{1}{2}$	5	0	0	Haarlem
2	$5\frac{1}{2}$ „	$4\frac{1}{4} \times 3\frac{1}{2}$	5×4	5	10	0	Habesh
3	6 „	5×4	$6\frac{1}{2} \times 4\frac{3}{4}$	6	0	0	Hachen
4	7 „	$6\frac{1}{2} \times 4\frac{3}{4}$	$7\frac{1}{2} \times 5$	7	0	0	Hadda
5	$8\frac{1}{2}$ „	$7\frac{1}{2} \times 5$	$8\frac{1}{2} \times 6\frac{1}{2}$	8	10	0	Hælen
6	10 „	$8\frac{1}{2} \times 6\frac{1}{2}$	10×8	12	0	0	Haffen
C 0	4 „	$3\frac{1}{2} \times 2\frac{1}{2}$	$3\frac{1}{2} \times 3\frac{1}{2}$	3	15	0	Heal
1	5 „	$4\frac{1}{4} \times 3\frac{1}{2}$	5×4	4	0	0	Heath
2	$5\frac{1}{2}$ „	$4\frac{1}{4} \times 3\frac{1}{2}$	6×5	4	5	0	Hebra
3	6 „	5×4	$6\frac{1}{2} \times 4\frac{3}{4}$	4	10	0	Hector
4	7 „	$6\frac{1}{2} \times 4\frac{3}{4}$	$7\frac{1}{2} \times 5$	5	10	0	Hedon
5	$8\frac{1}{2}$ „	$7\frac{1}{2} \times 5$	$8\frac{1}{2} \times 6\frac{1}{2}$	7	0	0	Heeg
6	10 „	$8\frac{1}{2} \times 6\frac{1}{2}$	10×8	9	10	0	Hefra

SERIES D. f/8. For Views, Groups, Interiors, Copying and Hand Camera Work, with large Aperture.

RATIO OF STOPS ... f/8 f/11.3 f/16 f/22.6

No.	Equiv. Focus.	PLATE COVERED.		PRICE.			Code Word.
		From	To	In Iris Setting.			
				£	s.	d.	
D 1	5 inch.	$4\frac{1}{4} \times 3\frac{1}{4}$	$6\frac{1}{2} \times 4\frac{3}{4}$	3	10	0	Hiata
2	$5\frac{1}{2}$ „	$4\frac{3}{4} \times 3\frac{1}{2}$	7×5	3	15	0	Hibba
3	6 „	5×4	$7\frac{1}{2} \times 5$	4	0	0	Hicory
4	7 „	$6\frac{1}{2} \times 4\frac{3}{4}$	$8\frac{1}{2} \times 6\frac{1}{2}$	5	0	0	Hida
5	$8\frac{1}{2}$ „	$7\frac{1}{2} \times 5$	10×8	6	0	0	Hiendel



AN "ADON" fitted to your "N. & G." will give you large pictures at short extensions. On the "Sibyl," for instance, your picture will be nearly three times the usual size.

It gives correct perspective in Portraiture too, and is simple to use. WHY NOT TRY ONE?



Reduced from $8\frac{1}{2} \times 6\frac{1}{2}$.

By Rev. W. McKeon.

Beaumont College, Old Windsor. Taken with the "Adon" with 10 in. Camera Extension.
The small picture is taken with the same Extension and at the same distance with a 10 inch R.R. Lens.

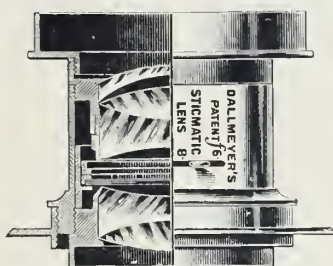
The Dallmeyer Stigmatic Lenses.

(PATENT.)

Series II.

A truly Universal
Lens, f/6.

Absolute
Freedom from
Astigmatism,
and a
Perfectly Flat
Field.



Extreme Speed.

Great Covering
Power.

Can be made to
serve as
Four Different
Lenses.

Fig. 49.

This Lens is suitable for every class of Photography from Portraiture to Wide Angle Work.

The smaller sizes are particularly suited for Hand Camera work, covering the plate to the edges at full aperture (f/6). At a smaller aperture (f/16) they will cover a plate at least two sizes larger, thus embracing a very Wide Angle. Besides this, each combination may be used separately, the back combination having a focal length of about $1\frac{1}{2}$ times, and the front twice that of the entire lens. Thus a *Stigmatic* does the work of four ordinary lenses.

No.	Plate covered at full aperture f/6.	Eq. Focal Length.	Price with Iris Diaphragms.	Price in Koilos Shutter.
1AA	$2\frac{1}{2} \times 2$	3.25 ins.	£4 0 0	£5 15 0
1A	$3\frac{1}{4} \times 2\frac{3}{4}$	4	4 5 0	6 0 0
1	$3\frac{3}{4} \times 3\frac{1}{4}$	4.5	4 15 0	6 10 0
2	$4\frac{1}{4} \times 3\frac{1}{4}$	5.3	5 15 0	7 15 0
3	5×4	6.4	6 15 0	9 3 0
4	$6\frac{1}{2} \times 4\frac{3}{4}$	7.6	8 2 6	10 10 6
5	8×5	9	10 10 0	13 10 0
6	$8\frac{1}{2} \times 6\frac{1}{2}$	10.7	13 10 0	16 10 0

The Dallmeyer Stigmatic.

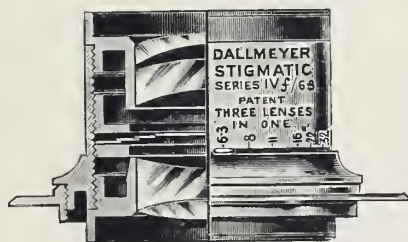


Fig. 50.

Series IV., f/6.3.

A Low-Priced Rapid Anastigmat for Hand Cameras. Three Lenses in one. Front combination with medium extension for pictures three times the ordinary size. Back combination for pictures half as large again as with the complete.

No.	Plate Sizes. Inches.	Focal Lengths.		Prices in either Rigid or Sunk Mounts.
		Inches.	mm.	
1A	$3\frac{1}{2} \times 2\frac{1}{2}$	$3\frac{3}{4}$	100	£2 15 0
1	$4\frac{1}{4} \times 3\frac{1}{4}$	$4\frac{1}{4}$	120	3 0 0
2	5×4	6	150	3 10 0
3	$6\frac{1}{2} \times 4\frac{3}{4}$	7	175	4 5 0
4	7×5	$8\frac{1}{2}$	205	5 15 0

"COOKE" LENSES

FOR

Extremely Keen Definition at Large Apertures.

"COOKE" LENSES are made in eight series and are used by amateurs as well as the best professional photographers, because owing to the fact that they have only three thin glasses, and nothing between the components to absorb the light,

NO MOVEMENT IS TOO FAST FOR THEM.

At the same time they possess a unique method of final adjustment that removes the errors which remain to spoil the work of other high priced lenses, and enables "Cooke" Lenses to render that critically sharp detail for which they are so treasured by their users.

NEWMAN & GUARDIA OUTFITS :: :: COMPLETE WITH "COOKE" LENSES.

THE "N. & G." SQUARE REFLECTOR REFLEX CAMERA.

Fitted with "Cooke" Lens	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{4}$ -Plate.	5×4	$\frac{1}{2}$ -Plate.
Ser. II. $f/4.5$	£29 10s.	£32 15s.	£37 10s.	£46 15s.
Ser. III. $f/6.5$	£28 14s.	£31 17s.	£36 12s.	£45 15s.

Lenses fitted— $3\frac{1}{2} \times 2\frac{1}{2}$, $4\frac{1}{8}$ in.; $\frac{1}{4}$ -Plate, $5\frac{1}{2}$ in.; 5×4 , $6\frac{1}{2}$ in.;
 $\frac{1}{2}$ -Plate, $7\frac{7}{8}$ in.

THE "N. & G." UNIVERSAL" CAMERA (Pattern B).

Fitted with "Cooke" Lens.	$3\frac{1}{2} \times 2\frac{1}{2}$.	$\frac{1}{4}$ -Plate.	5×4 .	$5\frac{1}{2} \times 3\frac{1}{2}$.
Ser. III. $f/6.5$	£24 17s.	£19 2s.	£22 7s.	£24 17s. 6d.
		$\frac{1}{2}$ -Plate, £27 5s.		

Lenses fitted— $3\frac{1}{2} \times 2\frac{1}{2}$, $4\frac{1}{4}$ in.; $\frac{1}{4}$ -Plate, 5 in.; 5×4 and
 $5\frac{1}{2} \times 3\frac{1}{2}$, $6\frac{1}{2}$ in.; $\frac{1}{2}$ -Plate, $7\frac{7}{8}$ in.

"Sibyl" Cameras are also fitted with "Cooke" Lenses.—See "Sibyl" Lists.



FOCUSING COOKE LENS
Series III $f/6.5$

Fig. 51.

"Cooke" Lenses.

"Cooke" Lenses consist of three simple glasses, uncemented, and therefore transmit more light than do any of the usual complex forms, while the unique system of screw adjustments enables them to reach a higher standard of excellence than can be attained by any other means.

FOCUSING "COOKE" LENSES.

CODE.		Equivalent Focus.	Plate covered at F.6.5.	Diameter of Flange Screw.	Diameter of Hood.	PRICES.	
ORDINARY MOUNT.	SUNK FLANGE.					In Ordinary Mount with Flange.	In Sunk Mount with Flange.
Fantasean ...	Fondatrice ...	$4\frac{1}{2}$	$3\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2}$	1.15	£ 3 19 0	£ 4 3 6
Fantineria ...	Fondoneros ...	5	$4\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2}$	1.25	£ 4 7 0	£ 4 11 6
Fantolina ...	Fonticulus ...	$5\frac{1}{2}$	$4\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2}$	1.40	£ 4 12 0	£ 4 16 6
Farrabustea ...	Fontinalia ...	6	5×4	$1\frac{1}{2}$	1.40	£ 4 17 0	£ 5 1 6
Flabellum ...		$7\frac{1}{2}$	7×5	$1\frac{1}{2}$	1.65	£ 6 2 0	—
Flagitium ...		$8\frac{1}{2}$	8×5	$1\frac{1}{2}$	1.90	£ 6 13 0	—

SERIES II. Aperture $f/4.5$.

CODE.	Approximate Equivalent Focus.	Size of Plate.	Diameter of Flange Screw.	Diameter of Hood.	PRICE with Flange.
Febraticos ...	4	$3\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2}$	1.60	£ s. d. 4 2 0
Febratidum ...	5	$4\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2}$	1.65	£ 4 17 0
Fedorento ...	6	5×4	2	1.90	£ 5 9 6
Fegatoso ...	8	$6\frac{1}{2} \times 4\frac{1}{2}$	$2\frac{1}{2}$	2.50	£ 6 12 6

SERIES III. Full Aperture $f/6.5$.

Dimensions are in Inches.		PRICES.	
Approximate Equivalent Focus.	With large Apertures to cover Plates.	Lens with Flange.	Lens in Sunk Mounts.
$4\frac{1}{2}$	$3\frac{1}{2} \times 3\frac{1}{2}$	£ s. d. 3 14 0	£ s. d. —
5	$4\frac{1}{2} \times 3\frac{1}{2}$	£ 4 2 0	£ 4 7 6
$5\frac{1}{2}$	$4\frac{1}{2} \times 3\frac{1}{2}$	£ 4 7 0	£ 4 12 6
$6\frac{1}{2}$	5×4	£ 4 12 0	£ 4 17 6
$7\frac{1}{2}$	7×5	£ 5 12 0	£ 6 0 0
$8\frac{1}{2}$	8×5	£ 6 3 0	£ 6 13 6

"COOKE" LENSES in Sunk Mounts.

SERIES	5 in.	5½ in.	6 in.	8 in.	10½ in.		
II. f/4.5.	£5 5 0	5 15 0	6 2 6	7 10 0	14 15 0		
SERIES	5 in.	5½ in.	6¾ in.	7½ in.	8½ in.	9½ in.	11 in.
III. f/6.5.	£4 7 6	4 12 6	4 17 6	6 0 0	6 13 6	9 7 0	11 10 0
SERIES	5 in.	6 in.	8 in.	9½ in.	11 in.		
IV. f/5.6.	£4 15 0	5 7 6	6 19 0	9 18 0	13 12 0		
SERIES	5 in.	5½ in.	6 in.	7½ in.	9 in.	11 in.	
V. f/8.	£3 10 6	3 15 6	3 19 6	4 17 6	6 0 0	8 7 6	

Lenses.

Goerz Double Anastigmat "Dagor."

Series III. f/6.8.

An excellent universal Lens suitable for Portraits, Groups, Instantaneous Work, and Architecture.

No.	Equivalent Focus.	PLATE COVERED.			Code Word.	Price with Iris Diaphragm.	Price in Special Focussing Mount.
		At full aperture.	With smaller stops.				
00	3½	3¼ × 3¼	3¼ × 4¼	4 × 5	Cadiz	£ 5 0 0	£ 5 15 0
0	5	3¼ × 4¼	4 × 5	4¾ × 6½	Cæsar	5 5 0	6 0 0
1	6	4 × 5	4¾ × 6½	5 × 8	Calderon	6 5 0	7 5 0
2	7	4½ × 6½	5 × 8	7 × 9	Calla	7 5 0	8 5 0
3	8¼	5 × 8	6½ × 8½	8 × 10	Calvin	8 15 0	9 15 0
4	9¾	6½ × 8½	7 × 9	10 × 12	Camerun	10 10 0	11 15 0
5	10¾	7 × 9	8 × 10	12 × 15	Camillus	12 15 0	—
6	12	8 × 10	10 × 12	16 × 18	Canada	15 5 0	—

Goerz Double Anastigmat. Series I.B. "Celor" f/4.5 to 5.5.

No.	Equivalent Focus.	PLATE COVERED.		Code Word.	Price with Iris Diaphragm.	Price in Special Focussing Mount.
		At full aperture.	With smaller stops.			
000	2¾	2¼ × 1½	2¾ × 2	Baal	£ 4 15 0	£ 5 10 0
00	3½	3½ × 2½	4 × 2¾	Babel	5 5 0	6 0 0
0	5	4¼ × 3¼	5 × 4	Bacca	5 10 0	6 5 0
1	6	5 × 4	6½ × 4¾	Babuin	6 10 0	7 5 0
2	7	6½ × 4¾	8 × 5½	Bacchus	7 10 0	8 5 0
3	8¼	7 × 5	8½ × 6½	Baco	9 5 0	10 5 0

The Goerz "Pantar" Anastigmat Sets.

Set I. for ¼-plate Camera.

Consists of "Pantar" lenses, Nos. 1, 2, 4.

Single lenses 6in., 7in., 9½in. ...	Aperture f/12.5	Price.
Combination 7 × 6 resulting focus 3¾ins. ..	6.8	£10 5 0
" 9½ × 6 ..	4¼ins. ..	7.7
" 9½ × 7 ..	4¾ins. ..	7.2

Set II. for 5 × 4 Camera.

Consists of "Pantar" lenses, Nos. 2, 4, 6.

Single lenses 7in., 9½in., 11¾in. ...	Aperture f/12.5	Price.
Combination 9½ × 7 resulting focus 4¾ins. ..	7.2	£11 15 0
" 11¾ × 7 ..	5¼ins. ..	9
" 11¾ × 9½ ..	6 ins. ..	7.2

Set III. for ½-plate Camera.

Consists of "Pantar" lenses, Nos. 4, 6, 7.

Single lenses 9½in., 11¾in., 14in. ...	Aperture f/12.5	Price.
Combination 11¾ × 9½ resulting focus 6 ins. ..	7.2	£13 10 0
" 14 × 9½ ..	6½ins. ..	7.7
" 14 × 11¾ ..	7½ins. ..	6.8

Telephotography.

"N. & G." TELEPHOTO ATTACHMENT.

For enlarging the image directly in the Camera. It can be fitted to all the "N. & G." Instruments, except pattern A.

It gives images $2\frac{1}{2}$ to 4 diameters larger than the normal Lens.

For $\frac{1}{4}$ -plate and 5 by 4, including 3in. Dallmeyer Negative and marking Camera

£6 0 0

For $\frac{1}{2}$ -plate, including 4-inch Dallmeyer Negative and marking Camera

8 0 0

Leather Pocket Case

0 6 6



"N. & G." REFLEX TELEPHOTO.

For Long-Focus Camera, including interchangeable fitting and Marking the degrees of Amplification. (Superior Definition. Used with the Positive Lens of Reflex Camera).

$\frac{1}{4}$ -plate.
£ s. d.
6 15 0

5 x $\frac{1}{4}$ -plate.
£ s. d.
6 15 0

$\frac{1}{2}$ -plate.
£ s. d.
7 5 0

"N. & G." REFLEX TELEPHOTO.

For Square Reflex Camera, including Adapter and Marking the degrees of Amplification. (Superior Definition. Used with the Positive Lens of Reflex Camera).

$\frac{1}{4}$ -plate.
£ s. d.
5 15 0

5 x $\frac{1}{4}$ -plate.
£ s. d.
5 15 0

$\frac{1}{2}$ -plate.
£ s. d.
6 12 6

AN

Improved Telephoto Lens.

STALEY-WHEELER (Patent.)

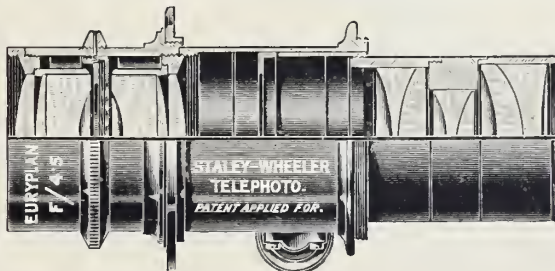


Fig. 53.

with a very short extension of camera, bellows, viz. (in half-plate size), of 15 inches, while the results obtained are greatly superior and the many advantages easily appreciated over the very long extension under the old system of from 40 to 60 inches. The camera and stand is more rigid and the focussing more easily done. They are specially advantageous for distant Landscapes, Mountain Scenery, Architectural, Military and Naval photography; also Balloon work. With a greater extension of camera they are capable of giving amplifications to 60 times.

Tele. Negative Attachments to $\frac{1}{4}$ -plate Lenses, 7 in. focus,

£6 6 0 Aluminium.

The Staley-Wheeler Convertible Telephoto Lens is specially suited to "N. & G." Reflex and Universal Cameras. The construction offers a convertible system which will permit very high amplifications, viz. 6 to 30 times

Telephotographic Lenses.

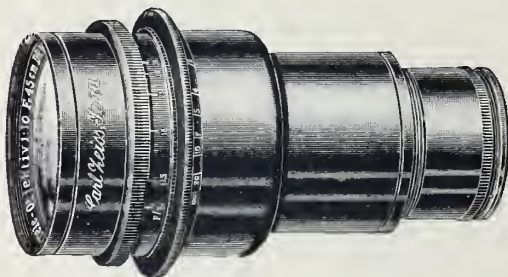


Fig. 54.

The "Zeiss-Magnar"
Tele-
Objective.

f/10, 18 in. Focus.
for
Hand Cameras.

The "Zeiss-Magnar" Tele-objective f/10 is quite a new departure from the usual tele-objective, and with only 6 in. camera extension is equivalent to a lens of 18 in. focus. Specially suitable for hand-camera work, having great rapidity and giving that exquisite definition for which "Zeiss" lenses are so renowned. Can be adapted to "N. & G." Reflex and other Cameras, and forms a most useful and efficient addition.

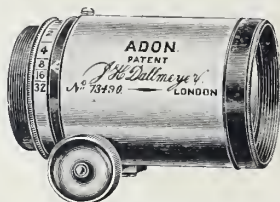
Price, "Zeiss-Magnar" 1: 10 Eq. Focus, 18 in. in focussing jacket, £10.

"Adon" Telephoto Lens.

Large Pictures

on

Small Cameras.



Improved

Mounting.

Fig. 55.
Half Size.

The "Adon" is a complete Telephoto Lens for use alone. It is mounted in aluminium, weighs only 4½ ounces, has an iris diaphragm and rack and pinion motion to alter the separation of the glasses and vary the size of the picture and plate covered. It is suitable for cameras from 3½ × 2½ up to 15 × 12, giving large pictures with short extensions.

A new sliding mount and a slightly higher power negative giving better definition are the improvements of the year.

Price, including fitting to camera, £3 15 0.

Small Sliding Hood to increase brilliancy, 2/6.

The Junior "Adon" for Folding Cameras

permits the taking of Telephoto and Ordinary Snapshots alternately.

Price, with solid leather case, £2 10 0.



Fig. 56.

Taken with Zeiss (Carl Zeiss, Jena) Special Tele-Objective 18 in. focus, 6 in. extension. Subject about 4 yds. distant. Exposure at full aperture $1/10$ sec., open air, end of July, 6 p.m. The smaller portrait shows the size of figure with a 6 in. objective, under the same conditions.

The combination of the three advantages of the Zeiss Special Tele-Objective, namely:—

$\frac{1}{2}$ yard focus with only 6 in. camera extension, great rapidity and convenient manipulation on hand cameras

together with bulk and weight reduced to a minimum, indicates at once the particular sphere of work for which it is best suited.

Animals at large. An example will afford the best information regarding the size of the subjects upon the plate.

	A deer (3 ft. high),	A pigeon (10 in. high) would appear
at 5 yds. distance	about 4 in. high	about 1 in. high.
at 10 " " "	" 2 " "	" $\frac{1}{2}$ " "
at 50 " " "	" $\frac{2}{5}$ " "	" $\frac{1}{10}$ " "

Instantaneous Portraits and Genre Pictures with the hand camera. In this domain particularly fine results from the introduction of the Special Tele-Objective are to be expected, which formerly were hardly to be hoped for.

Open Air Portraits on the Autochrome Plate. Wonderfully successful results are to be obtained with the Special Tele-Objective, exposure in good light from 2—3 seconds. What exposure to give in less favourable conditions of lighting the practical man will easily be able to form a judgment from its relative aperture, viz.: $f/10$.

Shutters.

The Compound Sector Shutter.

The Automatic Compound Shutter is renowned for its accuracy, simplicity in working, precision in manufacture and high efficiency. The working distance is so small, being $1\frac{1}{2}$ m/m., that very short focus anastigmat lenses may be satisfactorily fitted. All internal parts are made of best steel, and the external casing is of aluminium, thus combining minimum weight and maximum durability.

A notable feature of the Compound Shutter is that instead of two blades only, opening and closing according to the required speeds, it has 3 sectors in the small sizes, and 4 to 6 in the larger sizes. These open from centre, thus allowing the maximum amount of light to pass, and ensuring absolute equality of illumination.

Prices and Particulars of Shutters.

Size.	Iris Aperture.	Tube diameter for lenses.	Price.
No. 0	$1\frac{1}{2}$ in. or 20m/m.	$1\frac{1}{2}$ in. or 26m/m.	£ s. d. 1 15 0
" 1	1 in. or 25m/m.	$1\frac{1}{8}$ in. or 30m/m.	2 0 0
" 1A	$1\frac{1}{4}$ in. or 25m/m.	$1\frac{1}{8}$ in. or 35m/m.	2 2 0
" 2	1 in. or 31m/m.	$1\frac{3}{8}$ in. or 40m/m.	2 8 0
" 2A	$1\frac{1}{4}$ in. or 31m/m.	$1\frac{3}{8}$ in. or 44m/m.	2 14 0
" 3	1 in. or 42m/m.	$2\frac{1}{8}$ in. or 55m/m.	3 0 0
" 4	2 in. or 52m/m.	$2\frac{1}{8}$ in. or 63m/m.	3 5 0



Fig. 57.

Goerz Sector Shutter.

For Time and Instantaneous Exposures.

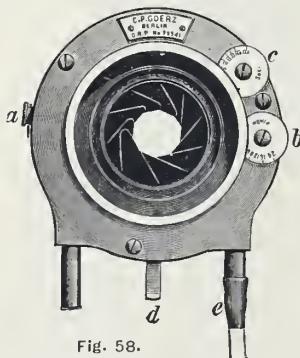


Fig. 58.

ITS ADVANTAGES ARE AS FOLLOWS:—

Simplicity of working.

All moving parts are completely covered in, hence they are not susceptible to distributing external influences, such as concussion, dust, moisture, &c.

After opening with the greatest velocity it will remain for a certain period in this fully opened position, thereupon closing with the same rapidity. Hence the Lens will work during the greatest part of the time of the exposure with the full size of opening for which it is set.

It will work without any shock or jerk, and permits, with certainty, great variations of speed, ranging from $\frac{1}{150}$ to $\frac{1}{2}$ second. The speeds marked on the shutter are absolutely reliable, and will

apply equally for any adjustment or size of stop. Time exposures of any duration can be given. It serves at the same time as a stop, and can be adjusted for any desired size of aperture.

PRICES.

Small Model, suitable for any Lens, the aperture of which does not exceed $24\text{ m/m} = 1\text{ in.}$	£ s. d. 3 10 0
Large Model, for Lenses with largest stop up to $32\text{ m/m} = 1\frac{1}{4}\text{ in.}$	4 10 0

Cost of fitting, 6/- to 15/- each, according to size.

Shutters.

THE "SANDERSON."

Time and Instantaneous Roller-Blind Shutter.

The "Sanderson" Shutter is made in two styles, viz. :—

Standard Pattern—To fit on either the hood or tube of the Lens.

Behind Lens Pattern—To fit on to Camera Front. **Both the Same Price.**

It is Perfectly Reliable; gives equal Illumination all over the plate; is easy to work; stands Hard Usage without getting out of order; and there is no Vibration.

The Time Exposures are of any desired duration—lasting as long as the ball is squeezed. Long Exposures for "Interiors" or very dark places are obtained by pulling the Setting Cord only half way (to the first catch) which sets the Shutter open (also for focussing).

The Instantaneous Exposures are obtained by turning the knob until the pointer shows the desired speed on the Indicator Dial. The range is from $\frac{1}{15}$ to $\frac{1}{50}$ second in the smallest size of shutter; $\frac{1}{20}$ in the 2 in. size; $\frac{1}{25}$ in the 2½ in. size; and the others in proportion.

The Automatic Timer (price 3/6 extra) is strongly recommended. It enables the Shutter to give Short "Time" Exposures Automatically, instead of by duration of ball pressure, and is indispensable. The times are $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{2}$, 1, 2 and 3 seconds.

PRICES.

Standard (Hood) and Behind Lens Patterns are same price. When ordering state which is required.

Speed Indicator and Pneumatic Ball and Tube are included in the price.

Automatic Timer, 3/6 extra. Strongly recommended.

Adjusting to fit Customer's Lenses—no charge. Send size when ordering.

To fit Hood or Tube up to inches diameter—	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	
Standard Pattern	} with Indicator	14 6	15 0	16 0	17 6	20 0	24 0	28 0	32 0	36 0
Stereoscopic Pattern			20 0	22 0	24 0					
Self-Capping Pattern	without Timer	25 0	27 6	30 6	32 6					

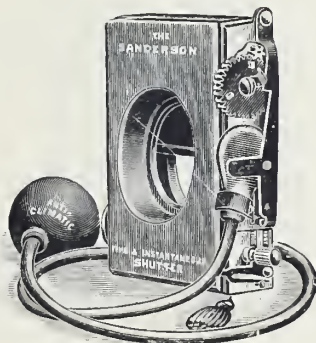


Fig. 59.



Fig. 60.
Price, 3/6.

THE "CENTRAL"—The New Detachable Shutter.

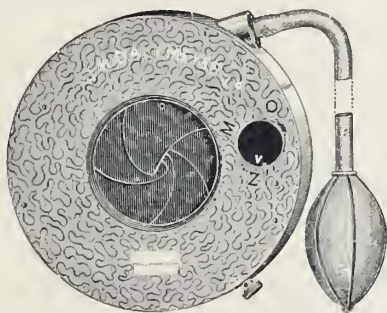


Fig. 61.

upwards. By the turning of a knob, the shutter may be set to time, "instantaneous," or opened for focussing as desired.

PRICES.

Aperture, inches	...	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{3}{4}$	3 (time only).
		14/-	15/-	16/-	17/-	18/-	20/-	24/-	24/-

N.B.—Give exact diameter of Lens tube or hood when ordering.

This is a beautifully finished shutter of the sector type, and may be arranged to fit in front of the lens or behind it, if desired. A commendable feature is its absolute silence when time exposures are given, and it has consequently become very popular among naturalists. One of its most useful applications is as a supplementary shutter to cameras of the "N. & G." Reflex (focal plane) type.

The duration of the instantaneous exposures depends upon the amount of pressure upon the pneumatic ball, the most rapid being about $\frac{1}{50}$ second, and the slowest $\frac{1}{15}$ second. The "time" exposures vary from $\frac{1}{6}$ of a second

Shutters.

The "Linhof" Shutter.

The "Linhof" Shutter is particularly suitable for lenses used on Stand Cameras, as it is made in a number of sizes with openings ranging from 1 inch to $2\frac{3}{4}$ inches. It can be fitted with an Iris Diaphragm to lenses having a separation between the component parts of from $3\frac{1}{2}$ to 4 millimetres, and in cases where lenses have not sufficient separation, we recommend it to be used on the lens hood. Pattern B specially recommended.

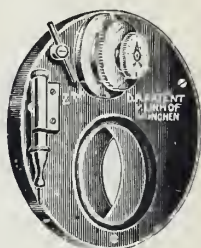


Fig. 62.
Pattern B.
To fit on hood of lens.

Pattern B.—Prices.

		Diameter of Shutter Opening.		Price with adapter to fit on hood of lens.
No. 1	...	1 in.	...	£2 2 0
No. 2	...	$1\frac{1}{4}$ "	...	£2 5 0
No. 3	...	$1\frac{9}{16}$ "	...	£2 10 0

Lens Adapters.

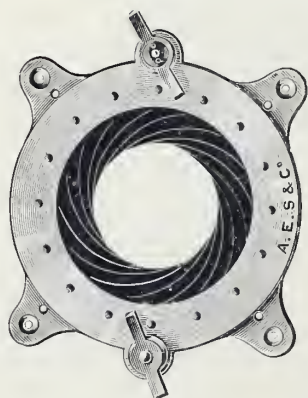


Fig. 63.

For using various Lenses with one Camera without the necessity of extra fronts.

It enables an operator to attach one lens in lieu of another with rapidity and security, avoiding the troublesome process of screwing and unscrewing the lenses.

In order that the lens tube shall be firmly held in position, a clamping arrangement is provided which renders any relaxation of the hold on the lens an impossibility.

Extra strong, with Rack adjustment and Locking Clamp.

		Size—1	2	3	4
		$\frac{5}{8}$ to $2\frac{1}{8}$	$\frac{7}{8}$ to 3	1 to 4	$1\frac{3}{16}$ to $4\frac{3}{4}$
Brass	...	13/6	20/0	25/0	30/0
Aluminium	...	15/0	22/0	27/6	33/0

An exceptionally useful article for the Professional and Amateur Photographer, doing away with all adapters and loose fittings.

"N. & G." Prism Binocular.

The "N. & G." Prism Binocular $\times 8$ is made of a light but strong metal, covered with finest Morocco Leather and very best finish. The focussing is effected by adjustment of the eye-pieces.

Price in Best Leather Sling Case,
£5 5 0



Fig. 67.

Field Glass.

ZEISS
FIELD GLASSES.

Hints on Selection.

A. Binocular Field Glasses.— Though for reasons of compactness the distance between the objectives of our field glasses has been extended to only from $1\frac{3}{4}$ to twice that between the average pair of eyes, the increase of stereoscopic power is nevertheless clearly noticeable.

Our $\times 6$ and $\times 8$ glasses may claim **universality of application**, being equally reliable in the hills and in open country as on occasions of sport (horse races, &c.).

The particularly bright $\times 6$ stalking binocular "Silvamar" can be confidently recommended to **sportsmen and officers, as well as for use at sea**; it answers well for stalking in twilight and for observation at dusk, in foggy weather, or under otherwise unfavourable conditions of light. The same glasses may, of course, be used in clear daylight with equal advantage as other less well illuminated types.

The powerful $\times 12$ field glass, price, £9 5 0, finds its proper place where permanency of position and **daylight** favour full benefit being derived from its high magnifying power, and where the objects to be examined demand but a small field, as for instance, objects at sea.



Fig. 64.

Field Glass $\times 6$. Price, £6.
Weight, $15\frac{1}{2}$ ozs.

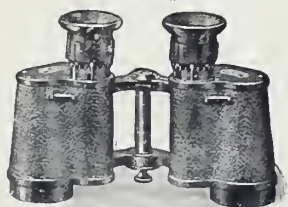


Fig. 65.

Field Glass $\times 8$. Price, £6 10 0.
Weight, $20\frac{1}{2}$ ozs.



Fig. 66.

Stalking and Marine Glass $\times 6$.
Price, £7 10 0. Weight, $23\frac{1}{2}$ ozs

For every purpose for which a High-Power Field Glass is Indispensable.

ROSS' Celebrated Prism Binoculars

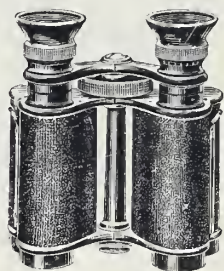


Fig. 68.
IMPROVED MODEL.

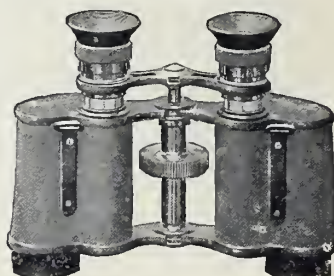


Fig. 69.
NEW STEREO-PRISMATIC.

Magnification Times.	With Screw Focussing Adjustment.	Focussing by Adjustment of Eyepieces.	Magnification Times.	With Screw Focussing Adjustment.	Focussing by Adjustment of Eyepieces.
6 ...	£6 5 0 ...	£5 5 0	6 ...	— ...	*£7 10 0
8 ...	6 10 0 ...	5 10 0	8 ...	7 10 0 ...	6 10 0
10 ...	7 10 0 ...	6 10 0	10 ...	8 10 0 ...	7 10 0
12 ...	8 10 0 ...	7 10 0	12 ...	— ...	*9 0 0

*Specially for Marine Use.

ROSS' MILITARY AND SPORTING TELESCOPES.



Fig. 70.

No.	DESCRIPTION OF TELESCOPE.	Magnifying Power.	Aperture in inches.	No. of Draw.	Length.		Price in Light Metal. Very Durable.	Price in Aluminium.
					Open.	Closed.		
		Times.					£ s. d.	£ s. d.
1	Watcher	15	1½	2	23½	10½	3 0 0	4 10 0
2	Reconnoitring	20	1½	4	21	6½	4 0 0	6 0 0
3	Deer Stalking	20	1½	3	30½	10½	4 10 0	6 15 0
4	Large Aperture ...	20	1½	3	30½	10½	5 0 0	7 10 0
5	Do. Pancratic ...	20, 25 & 30	1½	3	30½	10½	5 10 0	8 5 0
6	Extra Large Aperture	20	2	3	30½	10½	7 0 0	10 10 0
7	Military Pancratic	30, 40 & 50	2½	4	43	12½	9 10 0	14 10 0

These Prices include a Solid Leather Sling Case with each Telescope.

Albums.



Fig. 71.

Unmounted Photographs.—By the use of these Albums the prints may be easily removed and re-arranged without damaging the Album or the prints.

No mounting or trimming required. The most effective method of showing a series of hand-camera pictures, whether printed in platinum or silver.

				Prices.—Each.	
				A2 Series.	F2 Series.
No. 1.	12	$\frac{1}{4}$ -plate	One on leaf	1/3	3/9
„ 2.	24	„	One on page	2/-	4/3
„ 3.	48	„	Two „	3/9	6/-
„ 4.	96	„	Two „	6/3	—
„ 5.	12	5×4	One „	2/3	6/9
„ 6.	24	„	One „	3/6	6/9
„ 7.	48	„	Two „	6/-	8/-
„ 8.	96	„	Two „	12/-	—
„ 9.	12	Cab. and $\frac{1}{2}$ -plate	One „	2/3	7/6
„ 10.	24	„	One „	3/6	7/6
„ 11.	48	„	Two „	6/-	11/3
„ 12.	96	„	Two „	12/-	—

Mounts.

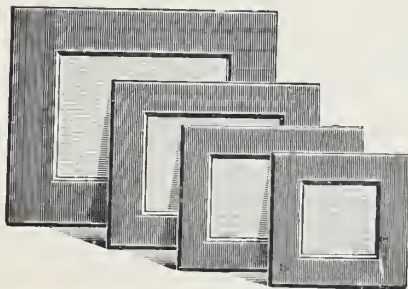
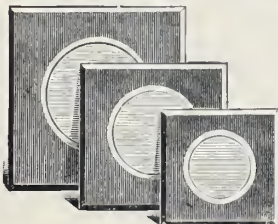


Fig. 72.



Fig. 73.



For Prints.		Slip in.		Paste on.	
		per doz.	per 100.	per doz.	per 100.
$3\frac{1}{4} \times 2\frac{1}{4}$	...	1/-	7/6	0/9	5/6
$\frac{1}{4}$ -plate	...	1/-	7/6	0/9	5/6
5×4	...	1/3	9/-	—	—
3-in. Circle	...	1/-	7/6	—	—

To take 3 prints.

$\frac{1}{4}$ -plate	...	3/6 per doz.	25/- per 100.
----------------------	-----	--------------	---------------

Brushes.

Round Hog-Hair Brush, string bound, short handle,
best quality. Price 6d. each.

Flat Camel-Hair Dusting Brushes.

(Best Quality).

2 in., 1/9

3 in., 2/3



Fig. 78.



Fig. 77.

Round Camel-Hair Brushes (Handled).

1/6, 2/-

Brushes for Cleaning Developing Dishes.

Bristle, 1/-

Bass, 1/-

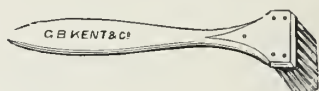


Fig. 76.

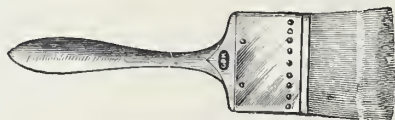


Fig. 75.

Mounting Brushes.

. White Handle, 10d.

Ebonized Handle, 1/-

Bottle Cleaning Brush. Price 2d. each.

SPOTTING PENCILS.

(Best Red Sable.)

Best Red Sable, 6d. each.

Best Quality Camel-Hair, in tin, 4d., 5d., 7d. and 9d.



Bottles.

WHITE GLASS-STOPPERED BOTTLES.

	Narrow Mouth.		Wide Mouth.
2 oz. ...	0/3	...	0/3½
4 " ...	0/3½	...	0/4
6 " ...	0/4	...	0/5
8 " ...	0/4½	...	0/5½
10 " ...	0/5	...	0/6
20 " ...	0/7	...	0/8
40 " ...	0/11	...	1/1

Dropping Bottle, 0/3½



BOTTLES WITH INDESTRUCTIBLE LABELS.

10 oz., Narrow Mouth, 1/6 each.

Acid Hydrochl., pur.
Potass. Bromide, 10 %
Developer No. 1
Developer No. 2
Ammonia, 10 %
Metol
Amidol

Pyro, 10 %
Hydrokinone No. 1
Hydrokinone No. 2
Toning Solution
Intensifier No. 1
Intensifier No. 2

20 oz., Narrow Mouth, 2/4 each.

Ammonia, 10%
Developer No. 1
Developer No. 2

Soda Carb., 20%
Pyro, 10%

20 oz., Wide Mouth, 2/4 each.

Soda Hypo.
" Carbonate
" Sulphite

Iron Sulphite
Pot. Carb.
Pot. Oxalate

40 oz., Wide Mouth Amber Glass, 1/6 each.

Ammon. Sulph—Cyanide

Autometric Dropping Bottles, 1/6 each.



THE Bimetric Minimeter.

This device provides for measuring and dropping fluids in such a manner that the operator has absolute control over the flow of the liquid. Each tube is graduated so as to show at a glance the relative value of the English and Metric System. It will deliver a single drop at a time with perfect accuracy or discharge fluids in larger quantities.

To insure regularity of the flow of the liquid, keep the valve free from moisture and deflect the projection with the finger without squeezing the bulb.

Price 2/6.

Photographic Chemicals for Travellers, Tourists and Explorers

ONE of the most remarkable advances in the technique of Photography during recent years has been the introduction of 'Tabloid' Photographic Chemicals by Burroughs Wellcome & Co., the well-known Manufacturing Chemists, of London, Dartford and elsewhere.

These 'Tabloid' toners, developers and fixers occupy hardly any space, and completely obviate the necessity for bulky bottles and heavy liquids. The result is that tourists and travellers who are determined to have their equipment of the lightest, may still include a 'Tabloid' Photographic Outfit without the slightest inconvenience, and in this way test their work by developing their negatives as they proceed.

That this method is being very largely used by travellers and explorers is evidenced by the reports published from time to time.

Mr. H. C. Shelley, a war correspondent, who went through the Boer War with his camera at his side, writes: "I count it to myself for wisdom that in the hurry of my departure for the Front I did not forget to include in my outfit a liberal supply of 'Tabloids,' and often in my tent at Modder River did I muse upon my good fortune in that respect."

Amongst others who have carried 'Tabloid' Photographic Chemicals as part of their travelling equipment for an exploring expedition may be mentioned

Sir Sven Hedin, the story of whose intrepid journeys in Tibet is related in "Trans-Himalaya."

Sir Ernest H. Shackleton took a complete outfit of 'Tabloid' Photographic Chemicals on his perilous journey into the Antarctic zone (when he got within 97 miles of the South Pole), and pronounced them quite satisfactory.

'Tabloid' Photographic Chemicals were also taken by Captain Scott on his famous Antarctic voyage in the *Discovery*.

Mr. R. L. Jefferson, F.R.G.S., in his book "Through a Continent on Wheels," writes: "I should like to mention that this firm (B.W. & Co.) prepared Photographic 'Tabloids' in a compressed form, and those photographers who desire to develop their plates *en route* cannot do better than adopt their portable and reliable outfits."

The Rev. B. M. McOwen, famous for his vivid and picturesque treatment of Chinese domestic scenes, prefers 'Tabloid' 'Rytol' Universal Developer, and obtains with it negatives which, in addition to their photographic interest, are admirable from a technical standpoint.

Mr. L. N. G. Ward, an example of whose work appears on this page, has used 'Tabloid' Chemicals with success in some of the most trying climates of the world.

The keeping properties of 'Tabloid' Photographic Chemicals have been amply proved by actual experience under the most trying climatic conditions. One well-known traveller, Lionel Declé, of the *Daily Telegraph*, London, used them to develop no less than 4000 plates in Equatorial Africa.

The foregoing are but a few among the many instances which might be given of the way in which 'Tabloid' Photographic Chemicals are being used and appreciated in various parts of the world.



The King of Bekwai (a native village in Ashanti) sitting under his state umbrella and surrounded by his courtiers. From a Bromide print developed with 'Tabloid' 'Rytol' Universal Developer.

BURROUGHS WELLCOME & CO.

"TABLOID" BRAND CHEMICALS.



Fig. 85.

"Tabloid" Brand—	Each 1/-	
Amidol Developer	(cartons)	
Eikonogen Developer	"	
Glycin Developer	"	
Hydroquinone (Quinol) Developer	"	
Metol Developer	"	
Metol-Quinol Developer	"	
Ortol Developer	"	
Rytol Universal Developer	"	
Paramidophenol Developer	"	
Pyro Developer	"	
Pyro-Metol Developer (Imperial Standard formula)	"	
Pyro-Soda Developer (Ilford formula)	"	

"Tabloid" Alkali—

"Tabloid" Sodium Carbonate, gr. 44	bottles of 22	6d.
---	---------------	-----

"Tabloid" Clearing and Hardening—

"Tabloid" Alum, gr. 10	bottles of 30	6d.
"Tabloid" Alum and Citric Acid Compound	bottles of 25	6d.

"Tabloid" Density Reducers—

"Tabloid" Ammonium Persulphate, gr. 11	tubes of 15	6d.
"Tabloid" Potassium Ferrocyanide, gr. 2	tubes of 22	6d.

"Tabloid" Hypo Eliminator—

"Tabloid" Potassium Percarbonate, gr. 3	tubes of 15	9d.
--	-------------	-----

"Tabloid" Intensifier—

"Tabloid" Mercuric Iodide and Sodium Sulphite	tubes of 15	6d.
--	-------------	-----

"Tabloid" Preservatives—

"Tabloid" Potassium Metabisulphite, gr. 10	bottles of 25	6d.
"Tabloid" Sodium Sulphite Dried, gr. 5	bottles of 50	6d.

"Tabloid" Sensitizer—

"Tabloid" Potassium Ammonium Chromate, gr. 24	tubes of 6	6d.
(For sensitizing carbon tissue).		

"Tabloid" Restrainers—

"Tabloid" Potassium Bromide, gr. 1	tubes of 30	6d.
"Tabloid" Ammonium Bromide, gr. 1	tubes of 30	6d.
"Tabloid" Sodium Citrate, gr. 1,	tubes of 25	6d.

"Tabloid" Toners—Each 1/-

"Tabloid" Gold Chloride, gr. $\frac{1}{2}$, with Borax, gr. 15	B 1	
"Tabloid" Gold Chloride, gr. $\frac{1}{2}$, with Sodium Bicarbonate, gr. 15	B 2	
"Tabloid" Gold Chloride, gr. $\frac{1}{2}$, with Sodium Tungstate, gr. 15	B 4	
"Tabloid" Gold Chloride, gr. $\frac{1}{2}$, with Sulpho-cyanide Compound	B 6	
"Tabloid" Platinum Toning Compound (for toning matt P.O.P.)	tubes of 9	6d.
"Tabloid" Copper Ferrocyanide Toning Compound (for toning brouide prints and lantern slides) tubes	of 15	6d.

"Tabloid" Fixer—

"Tabloid" Sodium Thiosulphate ("Hypo"), dried, gr. 28.5. Each represents gr. 44 of crystal "hypo"	bottles of 25	6d.
--	---------------	-----



Fig. 86.

"Tabloid" Brand Photographic Outfit

A Complete and Compact Chemical Outfit
in Black Japanned Metal Case.

Price 5/- Complete.

"AZOL." The Active Developer.

"SCALOIDS." Compressed
Photographic Tablets.



TROUSERS.

"AZOL," THE ACTIVE DEVELOPER, is a highly concentrated solution requiring dilution with *water only* to be ready for immediate use with Plates, Films, Lantern Slides, Bromide and Gaslight Papers. "Azol" does not STAIN OR FOG, and a longer scale of gradation is possible with "Azol" than with any other developer.

3 oz. Bottle makes 72 oz. normal strength developer, Price 1/3; also in 8 oz. Bottles at 2/6, and 16 oz. at 4/6.

"SCALOIDS" COMPRESSED PHOTO TABLETS. For full list of these handy and convenient forms of Developer, etc., see page 103.

ACCURATE AND RELIABLE FORMULAS.

EFFICIENT AND CONVENIENT.

######

Chemicals.

The "N. & G." Developer.

(Pyro-Soda).

This is a Special Pyro-Soda Developer for our own use.

The "N. & G." Developer is prepared from the purest chemicals and distilled water. A special preservative is employed which keeps the Developer in good condition for any length of time and does not reduce its energy like acids.

The Set of Two Bottles to make 120 oz. Developer, Price, 2/6; Post Free, 3/-. Smaller size, 1/6; Post Free, 2/-.

The "N. & G." Concentrated Developers.

In pairs of 2-oz. bottles with India-rubber stoppers. No. 1 and No. 2 fitted in cardboard box, to make one pint; also in pairs of 4-oz to make 2 pints.

Hydrokinone	2 x 2-oz. bottles	1/-	2 x 4-oz. bottles	1/6
Metol-Quinol	2 x 2-oz. ,,	1/-	2 x 4-oz. ,,	1/6
Pyro-Metol	2 x 2-oz. ,,	1/-	2 x 4-oz. ,,	1/6

Intensifying.

"N. & G." REDEVELOP INTENSIFIER, Concentrated. The New Intensifier. Thoroughly reliable, never failing to renovate flat and thin negatives, giving a black, quick printing intensification. It contains no scheduled poison.

Redevelop Intensifier, concentrated 2 x 2-oz. bottles, price 1/-.

"N. & G." Uranium Intensifier	3-oz. bottle	6d.	6-oz. bottle	1/-
"N. & G." Mercurial Intensifier	3-oz. ,,	6d.	6-oz. ,,	1/-

Reducing.

"N. & G." Reducer	4-oz. bottle	6d.	8-oz. bottle	1/-
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Toning and Fixing.

"N. & G." Gold Toning, Ready for Use—

4-oz. bottle	6d.	10-oz. bottle	1/-
--------------	-----	---------------	-----

"N. & G." Gold and Sulphocyanide Toning Concentrated—

In 1-oz. bottles (to make 16 oz.) 8d. 2-oz bottles (to make 32 oz.) 1/3

"N. & G." Toning and Fixing combined, contains full quantity of Gold Chloride, and is guaranteed to give good results—

10-oz. bottles	1/3	20-oz. bottles	2/3
----------------	-----	----------------	-----

"N. & G." HYPO ELIMINATOR—4-oz. bottles to make 1 pint Solution 6d.



Fig. 87.

Dark Room Clock.

Stanley's Patent Dark Room Clock.

For timing exposure and development.

Invaluable for Negative Development, Bromide Printing, Enlarging, Copying, Lantern Slide Making, etc.

This clock has a large bold seconds hand which traverses the full dial and can be readily seen in the subdued light of the dark room. In addition to the large seconds hand, it has a minute hand which can be put back to zero when exposure or development is commenced. Price 10/6.

The WATKINS Dark Room Clock.

With 4-inch dial, minute and seconds divisions, very plain for dark room, centre seconds hand, stop action, and outside indicator to mark the completed time. Price 10/6 (full instructions).



Fig. 68.

Condensers.

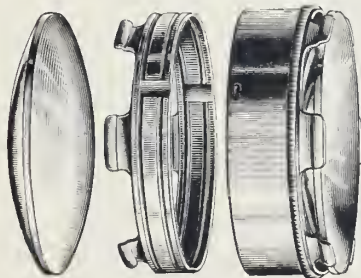


Fig. 89.

The "Argee" Condenser.

(PATENT).

SPECIAL ADVANTAGES OF THE "ARGE" CONDENSER.

Perfect Ventilation. Breakage of Lenses reduced to a Minimum.

The perfect ventilation of the "Argee" Condenser, as shown in illustration reduces the breakages to a minimum, moreover the mount will allow the lens to expand about twenty times as much as in the ordinary condenser.

Diameter in inches.	Plano-Convex.			Meniscus and Bi-convex.		
	Focus in inches.	Price.		Focus in inches.	Price.	
		£	s. d.		£	s. d.
4	3½	0	5 6	2½	0	6 6
4½	3¾	0	7 6	2¾	0	12 0
5	4	0	13 0	3¼	0	19 0
5½	4½	0	15 6	3¾	1	6 0
6	4¾	1	0 0	4¼	1	8 0
6½	6	1	6 0	5½	1	14 0
8	6¾	2	0 0	6¼	2	12 0
8½	6¾	2	4 0	6¾	2	16 0
8¾	7	2	8 0	6¾	3	8 0

Developing Dishes.

XYLONITE.



Fig. 90.



Fig. 91.

		$\frac{1}{4}$ -plate	9 × 12 c/m.	5 × 4	$\frac{1}{2}$ -plate.	$\frac{1}{4}$ -plate.
Assorted	...	5d.	6d.	7d.	8d.	1/-
Transparent	...	11d.	1/-	1/2	1/4	2/-
With Lifter	...	9d.	10d.	11d.	1/-	1/6
With Lip	...	5d.	—	7d.	8d.	1/-

GRANITINE.

	$\frac{1}{4}$	5 × 4	7 × 5	9 × 7	10 × 8	12 × 10	15 × 12
Shallow	...	6d.	7d.	10d.	1/2	1/5	—
Deep	...	8d.	9d.	1/-	1/5	1/8	2/9

The Granitine Dishes are made of a special semi-vitreous body, and covered with a hard porcelain Glaze, and may be used for all photographic chemicals, indiscriminately, supplying a want long felt by both professionals and amateurs.

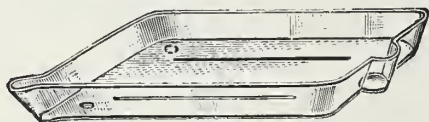


Fig. 92,

SPECIAL WHITE GLASS DISHES.

		$\frac{1}{4}$ -plate.	5 × 4	$\frac{1}{2}$ -plate.	$8\frac{1}{2} \times 6\frac{1}{2}$
PRICES	...	8d.	10d.	1/-	1/9

THE "CRYSTALATE" DISHES

(REGISTERED TRADE MARK).

These dishes are made of special hard black material, like ebony. They are not affected by acids or ordinary solutions.

The "A" quality dishes are practically unbreakable.

		For Plates.	"A" Quality.	"B" Quality.
PRICES	...	$4\frac{1}{2} \times 3\frac{1}{4}$	...	...
	...	5 × 4	7d. each	4d. each
	...	$6\frac{1}{2} \times 4\frac{3}{4}$	9d. "	6d. "
	...		1/- "	9d. "

The "EASTMAN" Plate Developing Tanks.

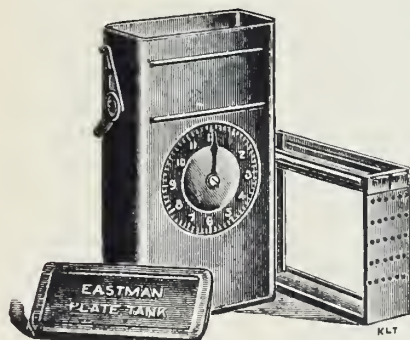


Fig. 95.

The "Eastman" Plate Developing Tank enables the plate photographer to apply to his work the same successful method of automatic time development which is embodied in the well-known Kodak Roll Film Developing Tank.

PRICES.

"Eastman" Plate Developing Tank	
—5x4 size, including Adapter for 4½x3½ plates...	12/6
7x5 size, including Adapter for 6½x4½ or 6½x4¼ plates	16/6
Adapters: 4½x3½ for 5x4 Tank	2/6
6½x4½ or 6½x4¼ for 7x5 Tank ...	3/0
Developing Powders, for 5x4 Tank ...	per ½ doz. 1/0
Developing Powders, for 7x5 Tank ...	per ½ doz. 1/9
Thermometers ...	1/6 & 2/0

The "TOURIST"

Daylight Developing Tank

(Patent.)

This entirely new Tank comes into the market with some very important claims of advantage over all other tanks. It does all that the amateur wants, from the first stage of developing to the last of drying the negative.

The negative need not be touched by the fingers once, from commencing development until it is a finished dried negative.

PRICES.

Griffin's "Tourist" Developing Tank, complete with rack and chain, beautifully nickelled, for 6 ¼-plates, 7/6

5x4, 10/6; 5½x3½, 10/6; ½-plate, 12/6.

Griffin's "Tanka" Developing Powders. Each, 2d.; Packet of 6, 1/-

Griffin's "Tanka" Fixing Salts, Packet of 6, 1/6.



Fig. 96.

The "WATKINS" Time Tank.

Plates Developed Horizontally, so that two or four can be developed with a proportionate amount of developer, not a tankful. An external spout permits the developer to be poured in and out in daylight, and allows thermometer to be dipped in daylight.

The plates are inserted in a darkened room; all further operations in daylight.

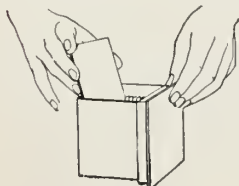


Fig. 98.

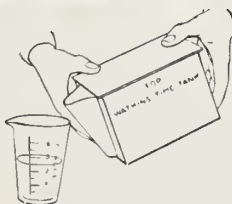


Fig. 97.

A top aperture for final washing under tap is now provided (not shown in illustrations).

6½x4½	price	8/6	6½x3½	price	8/6
5 x 4	"	7/6	5½x3½	"	7/6
4½x3½	"	5/-	5¼x3½	"	7/6
3½x2½	"	5/-	3½x2½	"	5/-

Parcel Post, 3d. extra.

The "PREMO" Film Pack Developing Tank.

The "Premo" Film Pack Developing Tank is a new and important addition to

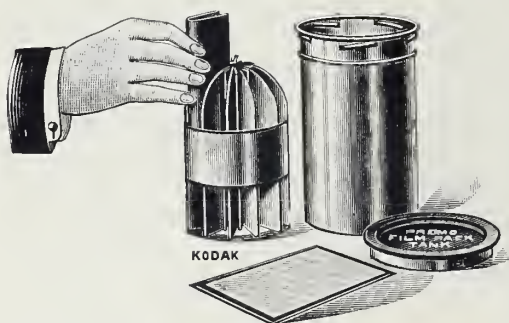


Fig. 99.

The No. 2 "Premo" Film Pack Tank is for $4\frac{1}{2} \times 3\frac{1}{4}$, $5\frac{1}{2} \times 3\frac{1}{4}$, 5×4 in. and 9×12 cm. films, and takes one dozen films.

The No. 3 "Premo" Film Pack Tank is for $6\frac{1}{2} \times 4\frac{1}{4}$, 7×5 in. and 13×18 cm. films, and takes six films only.

PRICES.

No. 2 "Premo" Film Pack Tank, for $4\frac{1}{2} \times 3\frac{1}{4}$, $5\frac{1}{2} \times 3\frac{1}{4}$, 5×4 in. and 9×12 cm. films (takes 12 films) ...	s. d.
...	16 0
No. 3 "Premo" Film Pack Tank, for $6\frac{1}{2} \times 4\frac{1}{4}$, 7×5 in. and 13×18 cm. films (takes six films only) ...	18 6
Developing Powders, per $\frac{1}{2}$ dozen, for No. 2 Tank ...	1 6
Developing Powders, per $\frac{1}{2}$ dozen, for No. 3 Tank ...	1 9
Kodak Acid Hypo, per $\frac{1}{2}$ lb. 6d., per lb. ...	1 0
"Eastman" Thermometer ...	2 0

The "STANDA" Plate & Flat-Film Daylight Developing Tank.

This Tank, the first Daylight Developing Tank offered to photographers, has undergone many improvements since its introduction, and is now the most perfect apparatus of the kind on the market.

The exposed Plates or Films are transferred (from their dark slides, sheaths, or packs, as the case may be) to the holder in the dark, or in the light by means of a changing-bag.

No. 3 (Reversible Plate-Holder) Model.

Holding 6 Plates or Flat-Films.

Size of Plates or Flat Films.	A Quality. All zinc, outer Tank enamelled and lacquered.	B Quality. Plate holder of German silver. Tank of solid brass, nickelled and polished.	Flat Film Frames, solid German silver, in sets of three.
$3\frac{1}{2} \times 2\frac{1}{2}$	5/-	10/6	2/6
$4\frac{1}{4} \times 3\frac{1}{4}$	7/-	12/6	3/6
12×9 c.m.	8/6	15/-	4/6
5×4			
$5\frac{1}{2} \times 3\frac{1}{4}$ p.c.			
$6\frac{1}{2} \times 4\frac{1}{4}$	10/6	16/-	5/6
$8\frac{1}{2} \times 6\frac{1}{2}$	not made in A quality.	25/-	—

The "Standa" Plate Loader.

	Zinc.	Nickelled and Polished.
No. 1 for plates $4\frac{1}{2} \times 3\frac{1}{4}$ and under ...	1/9	3/-
No. 2 " " 5×4 , $5\frac{1}{2} \times 3\frac{1}{4}$ and under ...	2/-	3/6
No. 3 " " $6\frac{1}{2} \times 4\frac{1}{4}$ and under ...	2/6	4/6

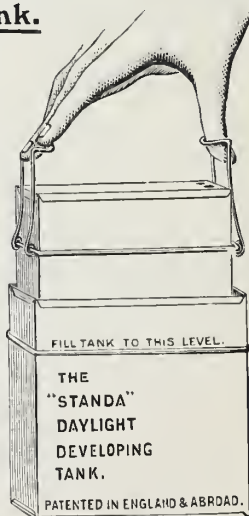


Fig. 100.

"B" Tank. Plate-holder of German silver, outer Tank brass, nickelled and polished.

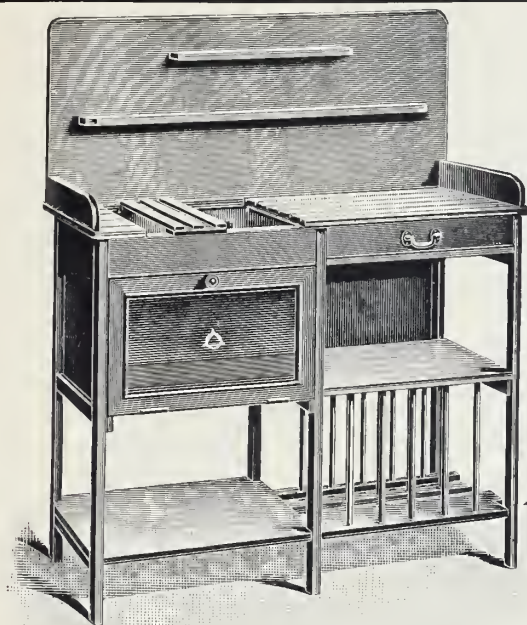


Fig. 101. Model G.

"N. & G."

DEVELOP- ING SINK.

Has more accommodation than any Sink yet introduced. Sliding Grid Rack included. Height of Sink 2ft. 10in. from Floor. Sink fitted with Plug and Overflow. Made with Sink on Right or Left Hand Side Any size made to order.

Size of Sink.

15 x 15in.,	£ s. d. 3 10 0
20 x 15in.,	4 0 0
24 x 17in.,	4 10 0

4-26
To order

EXPOSURE METERS.

One Movement Sets It.

The "Bee" Meter.

2/6 each.

Blue Glass, 6d. extra.

Improved Chain Pendulum, 1/- extra.

Fitted for use as Indoor Meter at same price.

With Special Dial for Autochromes ... 3/-

With Compass in Back Lid ... 3/6



Fig. 102.

'QUEEN BEE' METER,

10/6

Special Hand Finish, in neat Case.

With Compass ... 12/-

Focal Plane Meter.

3/6; By Post 3/7.

A Modified "Bee" Meter especially designed for Hand Camera work. Shutter speeds read against stops. Indicates half the exposure of the "Bee" Meter.



Fig. 104.



Fig. 103.

Exposure Meters.



Fig. 105.

"N. & G." Actinometer.

An Exposure Meter, utilizing Watkins' Patent System of measurement. It is made on a new design by our own workmen. Size only $1\frac{3}{4} \times \frac{1}{2}$ in. Can be fitted flush into woodwork of Camera or carried in the pocket.

Price, with Pocket Case and Instructions,
20/- each.

Re-fills, 6d. each.

Extra for fitting to "N. & G." Cameras, 5/-.

WYNNE'S INFALLIBLE EXPOSURE METER.

An Exposure Meter in the form of a watch, and can be supplied either in Nickel or Silver. Correct exposure determined for every speed of plate, and on every kind of subject, and under every condition of light.

Very simple to understand and work; at the same time absolute certainty of exposure can be relied upon.

Handsome Solid Nickelled Case,
6/6 each.

Handsome Solid Silver Case,
15/- each.

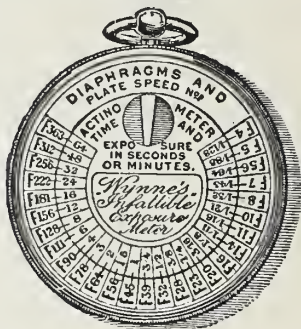


Fig. 106.

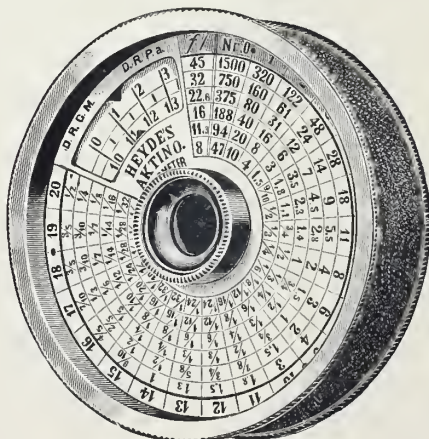


Fig. 107.

HEYDE'S FACILE ACTINO-PHOTO- METER.

For ascertaining correct exposures.

Easily used. Perfect results under any conditions.

Heyde's Actino-Photometer consists of a circular metal box made in Magnalium, covered in morocco, with shaded prisms and revolving index, with tables for all lenses with apertures from $f/3$ to $f/45$.

Price complete in Soft Leather Pouch, 18/6.

Finders.

"N. & G." FOLDING REFLECTOR FINDER.

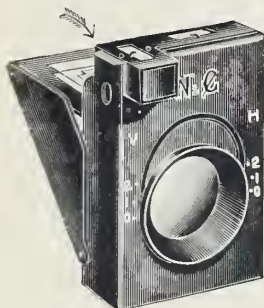


Fig. 108a.

The "N. & G." Reflector Finder has been specially designed for "Sibyl" Pocket Models but can be adapted to nearly every form of Folding Camera. The Finder shows a true view when using the Rising Front, and is marked with corresponding figures. It gives a fixed, real and very bright image, and is not subject to parallax or to secondary reflections. Price including fitting to "N. & G." or other Cameras, 26/-

BRILLIANT VIEW FINDER.

Very finely finished with Revolving Mask for both Horizontal and Vertical Views. Excellent glass lenses selected to give the fullest light and correctness of perspective.

For Hand Cameras up to 5 × 4	...	5 0
" " ½-plate	...	6 6
" " ⅓-plate	...	7 6

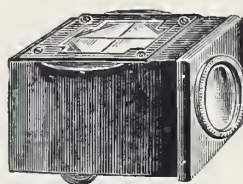


Fig. 109.

Supplied either in Polished Brass or Oxidised Black same price.

Fitted with Level combined, ½-plate	...	...	6 6
⅓-plate	...	...	8 0

NEW PATTERN DIRECT VISION FINDER.

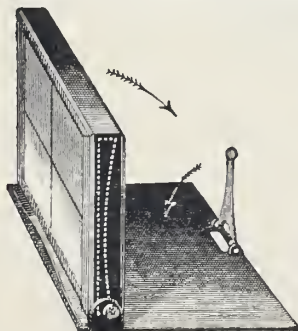


Fig. 108.

Square in shape, fitted with Reversible Mask for Horizontal and Vertical Views, and supplied with or without level. Most suitable Finder for folding focal plane Cameras.

		With Level.	Without Level.
½-plate	...	7 0	5 6
⅓-plate	...	8 0	6 6
⅓-plate	...	9 0	7 6

"N. & G." Film Pack Adapter.

Similar to the "Premo," but generally improved upon. Better finish, and specially prepared to match the "N. & G." Cameras. Wood parts are ebonised and black polished, also the back part of the Adapter is covered with fine grain leather, with the addition of a pocket for the shutter to be placed when in use.

PRICES.	"SIBYL."	S.R. REFLEX.
	£ s. d.	£ s. d.
$3\frac{1}{2} \times 2\frac{1}{2}$	1 10 0	0 15 0
$\frac{1}{4}$ -plate	1 15 0	1 10 0
$\frac{5}{8} \times 4$	—	0 15 0
		1 15 0

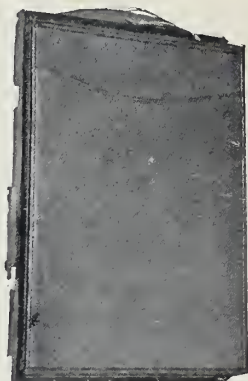


Fig. 110.

∴ ∴ THE ∴ ∴ **"HOUGHTON" ENVELOPE SYSTEM.**

A perfect Daylight Loading System for
Plates and Films.

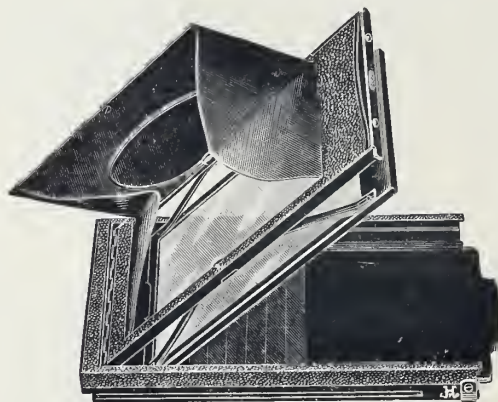


Fig. 111.

The "Houghton" Envelope System provides a means of loading the camera in daylight with either Flat Films or Plates, and entirely dispenses with the use of ordinary dark slides.

The Film or Plate is contained in an ingenious but exceedingly simple light-proof envelope made of stiff black paper.

The "Houghton" Envelope Adapter, Models "B." and "C.," have a focussing screen built into them in such a way as to dispense with the ordinary focussing screen, attached to the back of a camera, altogether.

Prices complete with Self-contained Focussing Screen.

Model "B."—Ebonised wood, leather-covered, for all Cameras using wooden Dark Slides.

Model "C."—Metal, leather covered.

Size.	Model "B"	Model "C"	Plate Envelopes New Model (Unloaded) Per Dozen.	Film Envelopes Loaded with "Ensign" Flat Cut Film (Thick) Packets of 10.	"Ensign" Flat Cut Films (Thick) for Reloading. Packets of 10.
	Each.	Each.			
$\frac{1}{4}$ -plate	15/-	15/-	3/6	3/-	1/8
5×4	18/6	—	4/6	4/6	2/6
Post Card	18/6	—	4/6	5/6	2/6
$\frac{1}{2}$ -plate.	25/-	—	6/-	6/-	3/9
9×12 c/m	16/6	16/6	4/-	5/-	2/3

"N. & G." Superb Lamp.

ELECTRIC.



Fig. 112.

The "N. & G." Lamp has been carefully designed to meet the requirements of those seeking a Lamp which will give the maximum amount of illumination according to the safe light in use. An important feature of this Lamp is that it is fitted with an adjustable movement so that it can be placed at any angle, position or height.

This permits of arranging the rays of light to fall upon the work in hand without in any way inconveniencing the operator.

An outside white light is provided which can be used at will.

The Lamp is well made throughout, and can be considered to represent the highest quality and most useful type procurable. Supplied in two forms only, with very slight difference in design.

Prices ^{24/6}35/- and 45/-, and Extra Large Model 63/-.

Suitable for Developing, Bromide Printing, and as a General Illuminant for the Dark Room.



Fig. 113.

Dark Room Lamps.

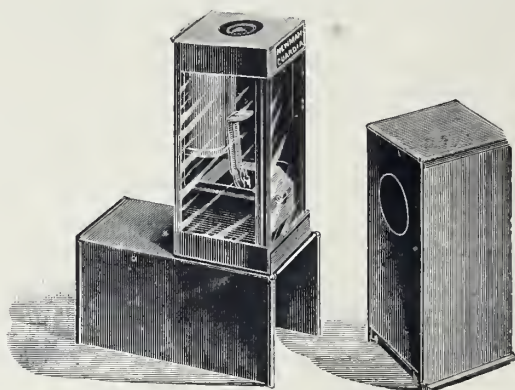


Fig. 114.

PRICES.

	s.	d.
Complete, with one packet Paraffin Tablets (50 hours) ...	10	0
One Box Paraffin Tablets (100 hours) ...	1	6
Extra Ruby Glasses, each ...	0	3

**THE
"N. & G."
METAL
TRAVEL-
LING LAMP.**
No Danger.
No Smell.
No Oil.

This Lamp burns Solid Paraffin — a substance free from danger, smell or smoke; it is always ready, lights easily, and solidifies on cooling. An ordinary wax vesta forms the wick.

THE "TOURIST"

Constructed for Candle.
Perfect Ventilation.
To Burn 4 Hours.



Fig. 115.

Closes into a compact portable form, making it a very convenient Lamp for touring.

Has moveable shades, so that either Orange or Ruby light can be used as required.

Price, ~~5/6~~ each.



Fig. 116.

"N. & G." FOLDING FABRIC LAMP.

This Lamp consists of a metal frame, covered with ruby fabric, with solid drawn Russian iron fittings for top and bottom. No open corners for light to leak out.

Prices ... 1/- 1/6 & 2/-.
Complete in slide Card Box.

VENUS RED LAMP LIGHTS,
Per Box, 1/-.

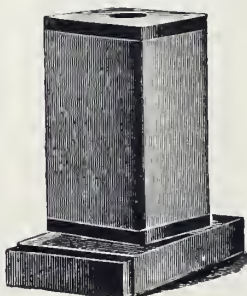


Fig. 117.

Dark Room Lamps.



Fig. 118.

The "AMATEUR."

Guaranteed Light-Tight, Perfect Ventilation.

Has lever movement Shade, and is fitted with Ground Ruby Glass. Burns with steady diffused light.

Price, 4/6 each ; or with outside wick-winding adjustment, 5/- each.

"N. & G." Photographic Arc Lamps and Accessories.

EXPOSURES - Practically instantaneous.

PRINTS - - About 1½ minutes.

This Lamp has no metal plate at the base of the Globe, so that all the light is thrown down, and should be used in small studios or where it is desired to have the Lamp fixed high. It is also specially adapted for printing, allowing the light to penetrate to the base of the printing cabinet.

PRICES.

			Continuous Current.			Alternating Current.		
			£	s.	d.	£	s.	d.
Small	...	...	4	15	0	5	0	0
Medium	...	...	5	5	0	6	10	0
Large	...	...	6	6	0	7	10	0

(Including resistance).



Fig. 118a.

Measures.

COMBINATION MEASURE.

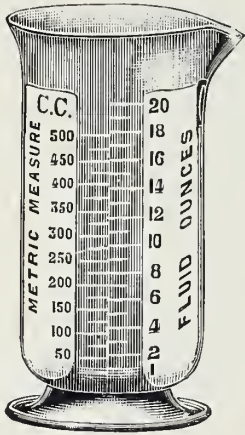


Fig. 122.

Imperial and Metric System
in One Measure.

Cup Bottom—

5	25	50	100
6d.	7d.	8d.	1/- each.
250	500	1,000	
1/6	2/-	3/6	each.

"N. & G." TUMBLER-SHAPE GLASS MEASURES.

Imperial and Metric System
in One Measure.

1 oz., 1/4; 2 oz., 1/6; 4 oz.,
1/8; 8 oz., 2/-.
The set of four, 6/-.

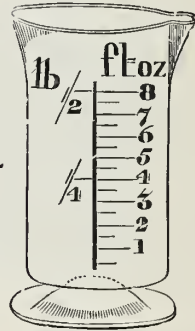


Fig. 123.

GLASS MEASURES.

Conical or Cylindrical Graduated.

1 dr.	...	...	4d.	10 OZS.	...	...	9d.
2 "	...	...	5d.	12 "	...	...	10d.
1 oz.	...	...	4d.	16 "	...	...	1/-
2 ozs.	...	...	4d.	20 "	...	...	1/-
4 "	...	...	6d.	32 "	...	...	1/9
6 "	...	...	7d.	40 "	...	...	3/-
8 "	...	...	8d.				

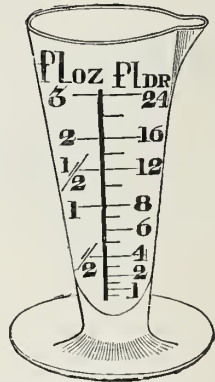


Fig. 124.

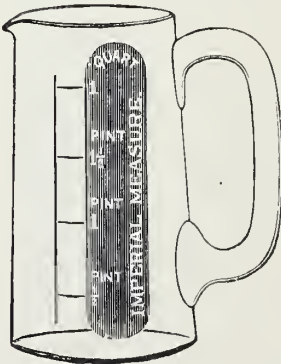


Fig. 125.

GLASS MEASURING JUGS.

Measure $\frac{1}{2}$ Pint to 1 Quart.

Pints, 1/- each; Quarts, 1/3 each.

CELLULOID MEASURES

(UNBREAKABLE.)

2 oz., 9d.; 4 oz., 1/-; 10 oz., 2/-; 20 oz., 3/6; 40 oz., 6/-.

Dry Mounting Machines & Accessories.

The "ADHERO" Mounting Machine.

**A complete Outfit for Dry Mounting Photographs, Pictures, Drawings,
&c., on Paper, Cards, or Mounts of every description.**

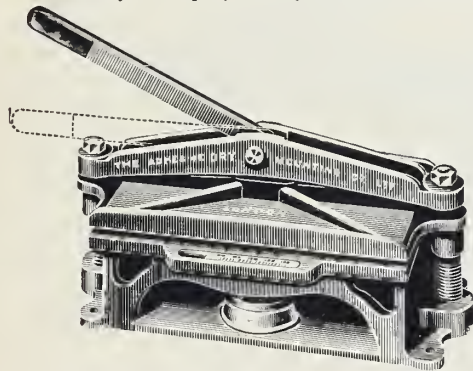


Fig. 126.

- 1 Machine Mounting Press.
1 Thermometer.
1 Spirit Lamp.
1 Fixing Lamp.

- 2 Metal Mounting Covers, Glossy
and Matt.
1 Grey Mounting Board.
1 Packet Adhesive.

Price, complete, 25/0. in neat box.

This Machine has been specially introduced to meet the requirements of Amateurs for a thoroughly satisfactory dry mounting press, at a price within the reach of all. It will mount $\frac{1}{4}$ -plate, 5×4 in., and $\frac{3}{4}$ -plate prints, in one pressure on a mount up to 8 ins. wide, and whole-plate prints in two pressures.

The working of the press is extremely simple.

The box contains:—

**Type "M"
Machine.**

Heated with Gas.

A special machine for Amateurs and others, for mounting, pressing with glazed, matt or grained surface, prints up to $11 \times 8\frac{1}{2}$ inches with one pressure, or 17×11 by two pressures.

Price - £3.

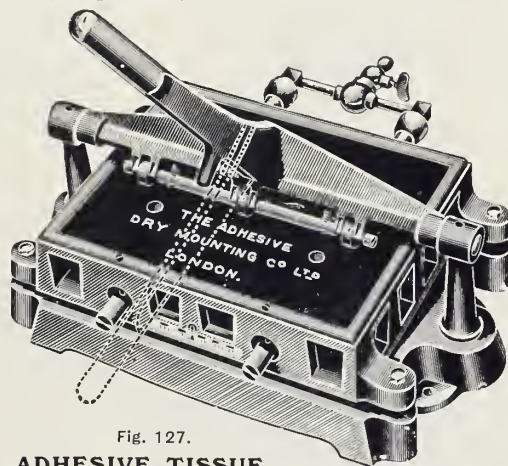


Fig. 127.

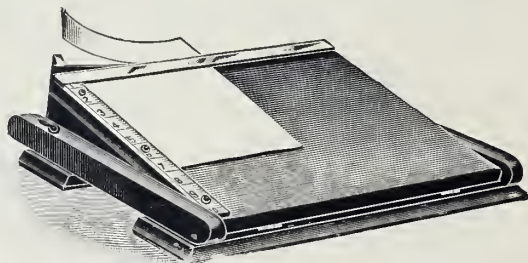
ADHESIVE TISSUE.

These Prices also apply for Tints prepared with Adhesive ready for Mounting.

[illegible]

Print Trimmers.

AUTOMATIC TRIMMING DESK.



(FULLY
PATENTED.)

**You
Press
the
Desk.**

**We do
the rest.**

Fig. 128.

Handsomely and strongly made in polished hard wood, with bright Brass and Steel fittings. Folds and packs in Box 2 inches deep.

PRICES—To cut up to 12 inches	... 21/-	To cut up to 10 inches	... 15/6
" " 7 "	... 10/6	" " 4½ "	... 7/6

THE "JAYNAY" PRINT TRIMMER.

The Cutter is made of Fine Tempered Steel, and is adjusted so that the cutting edge is in contact at every point. This is a very cheap and reliable cutter.

PRICES—5 inch.	... 3/-	7 inch.	... 4/-	9 inch	... 5/6
----------------	---------	---------	---------	--------	---------

THE "UNIVERSAL" CUTTING MACHINE.

The "Universal" is the best known Cutter on the market, and may be used for many purposes, such as for cutting mounts, ferrotype, or paper.

It is strongly made, giving enormous power, and the lever, which is held in the left hand, firmly holds the article to be cut and prevents any buckling or uneven cut.

PRICE—10 in.	... 21/-
13 in.	... 35/-

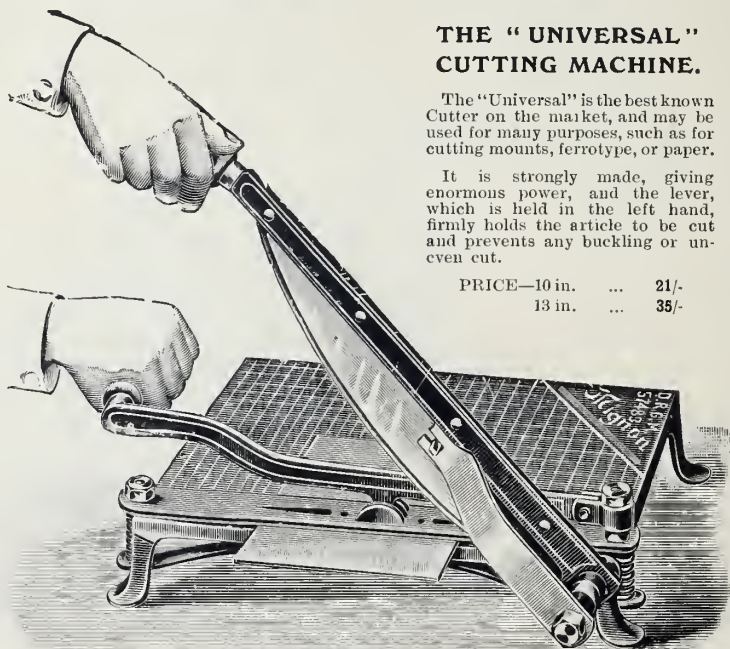


Fig. 130.

Printing Frames.

The "JAYNAY" Patent

Non-Slipping Printing Frame.

BEST FOR PLATES.

BEST FOR FILMS.

With this Frame it is possible for the most inexperienced person to examine a print without the slightest risk of moving it.

The back of this Frame is provided with two projecting metal pins which drop into corresponding slots in the side of the frame. By this means all possibility of the print shifting, and thus giving a double image, is avoided.

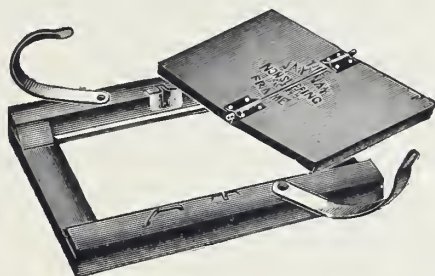


Fig. 131.

Size.	Price.	Size.	Price.	Size.	Price.
$\frac{1}{2}$ -plate ... each	7d.	$5\frac{1}{2} \times 3\frac{1}{4}$ (for Post-Cards), each	9d.	$\frac{1}{2}$ -plate ... each	2s.
5×4	10d.	$\frac{1}{2}$ -plate	1/-		

PATENT PERFECT POST CARD PRINTING FRAME.

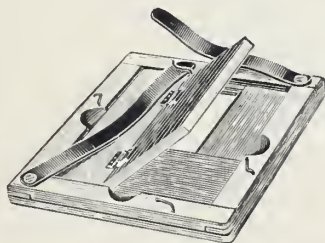


Fig. 132.

This Printing Frame will allow any portion of the negative being printed on any portion of the post card. No other will do it.

Adaptable Frames that will take $\frac{1}{2}$ -plate negative and any smaller size.

Prices.

$\frac{1}{2}$ -plate	1/3
Adaptable (with 3 adapt- ters)	2/-

THE "HOLBORN"

(Patent.)

The special advantage of this Printing Frame consists in a Hinged Spring, which flies back when released by the thumb, as shown in the illustration. When closing the frame it is merely necessary to press this hinged-spring back into position, when it is automatically held by the catch.

Size.	Each.
$3\frac{1}{2} \times 2\frac{1}{2}$	6d.
$4\frac{1}{2} \times 3\frac{1}{4}$	6d.
5×4	8d.
$6\frac{1}{2} \times 4\frac{1}{2}$	1/-
$8\frac{1}{2} \times 6\frac{1}{2}$	2/-

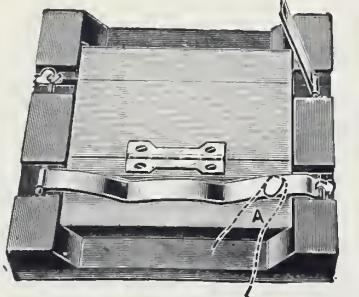


Fig. 133.

"N. & G." SPECIAL PRINTING FRAME (see page 127).

Scales and Weights.

A. In Polished Mahogany Box, Brass Pillar with Gun-Metal Slide, Brass Weight Scale and Chains, complete, with Apothecaries' weights.

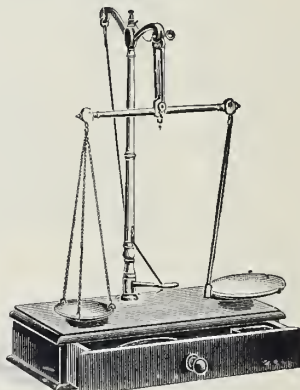
To weigh 2-oz. Brass Oval
Box—End Beam 39/-

Brass Beam, with Agate
Middle Bearings 47/-

Nickel-plated ... extra 7/-

Second Quality, complete... 32/-

B. In Oak Box, with Brass Pans and Silk Cords; with Weights complete.



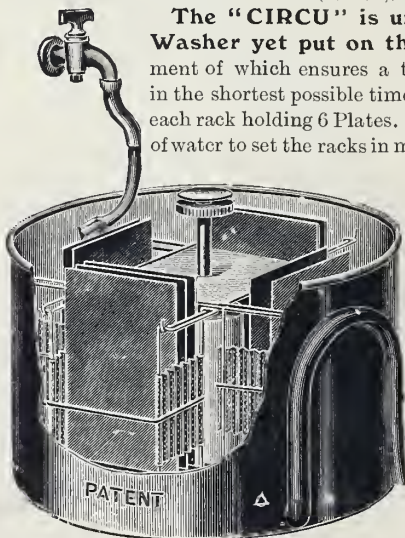
	Length of Beam	5	Fig. 134. 5½	6	7	Model A 8	9 in.
Bright Round Bushed Beam		4/-	4/-	4/-	4/6	5/-	5/6
Bright Round Beam ...		3/9	3/9	3/9	4/3	4/6	5/-
Extra Mahogany Box ...		-/9	-/9	-/9	1/-	1/-	1/6

Print Washer.

The "CIRCU" Print and Plate Washer.

(PATENT).

The "CIRCU" is undoubtedly the Best Plate Washer yet put on the Market, the rotating movement of which ensures a thorough washing of the Plates in the shortest possible time. The Plates are held in 4 racks, each rack holding 6 Plates. It requires but a small pressure of water to set the racks in motion. By removing the racks it becomes a useful Print Washer.



PRICES (COMPLETE).

4¼ × 3¼ in. ... 8/3 each.

5 × 4 in. ... 9/6 ,,

6½ × 4¾ in. ... 11/6 ,,

The "JUNIOR CIRCU" Washer.

This pattern is on similar lines to the larger well-known "CIRCU," but differs slightly in design.

PRICES.

4¼ × 3¼ in. ... 3/6 each.

5 × 4 in. ... 4/6 ,,

6½ × 4¾ in. ... 6/- ,,

Plate Washers, &c.

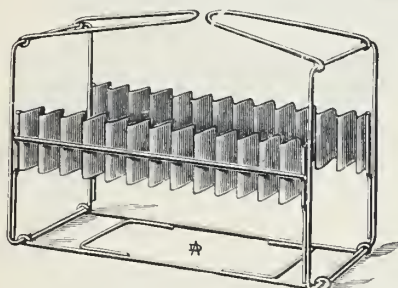


Fig. 136.

The "N. & G." Drying or Washing Plate Rack.

$3\frac{1}{2} \times 2\frac{1}{2}$	1/-	...	5 x 4	1/3
$\frac{1}{2}$ -plate	1/-	...	$6\frac{1}{2} \times 4\frac{1}{2}$	1/6
9 x 12 c/m	1/-	...	$\frac{1}{2}$ -plate	1/6

Or Supplied with Well Made
Metal Tank.

$3\frac{1}{2} \times 2\frac{1}{2}$	...	2/6	...	5 x 4	2/9
$\frac{1}{2}$ -plate	...	2/6	...	$6\frac{1}{2} \times 4\frac{1}{2}$	3/6
9 x 12	...	2/6	...	$\frac{1}{2}$ -plate	3/6

The Improved Rational Plate Washer.

The water is allowed to flow into the conduit at side of washer, and flowing through small holes in the side maintains a constant circulation of water between each negative.

Size.	Without Conduit and Washers. Syphon for Fixing, &c.
A $3\frac{1}{4} \times 3\frac{1}{4}$, 9 Grooves, 3/- each	2/6 each
B $4\frac{1}{4} \times 3\frac{1}{4}$, 9 "	3/9 " 3/- "
C 5 x 4, 9 "	4/4 " 3/6 "
D $6\frac{1}{2} \times 4\frac{3}{4}$, 9 "	4/9 " 4/- "
E $8\frac{1}{2} \times 6\frac{1}{2}$, 9 "	6/4 " 5/4 "

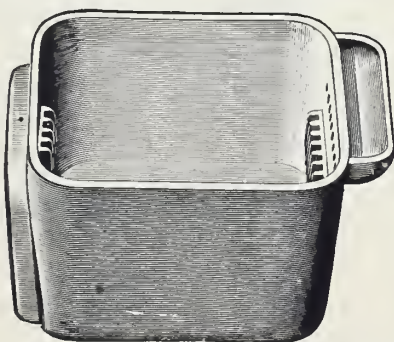


Fig. 137.

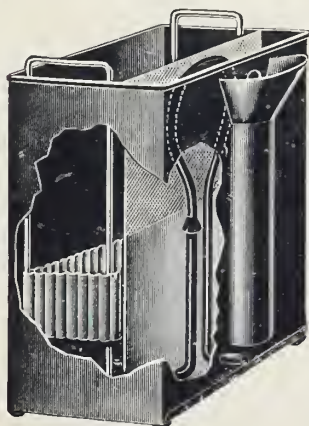


Fig. 138.

The Scientific Plate and Print Washer.

PATENT.

Gives a complete change of water every 60 seconds.

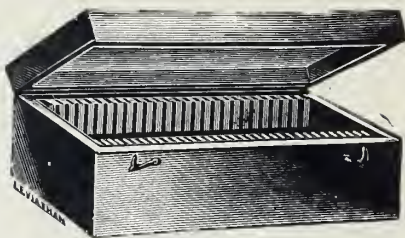
Embodies an entirely new principle in plate washing, and is the only one that will absolutely eliminate all the hypo in so short a time without the slightest attention.

PRICES.

For 12 $\frac{1}{4}$ -plates or 6 $\frac{1}{2}$ -plates	...	4/6
For 12 $\frac{1}{4}$ -plates or 18 $\frac{1}{2}$ -plates or 12 $\frac{1}{4}$ -plates	...	8/6

Negative Boxes for Storing Negatives.

These Boxes are well made and finished, having numbered grooves and a label in the lid for keeping a record of the negatives in the box, so that any one may easily be found.



For Plates.	12 Grooves.	24 Grooves.	50 Grooves.	Polished. 8 1/2
3 1/2 x 2 1/4	1/6	50 Grooves, 1
4 1/4 x 3 1/4	1/6	1/6 2 1/2 3
5 x 4	1/9	1/6
				1/9

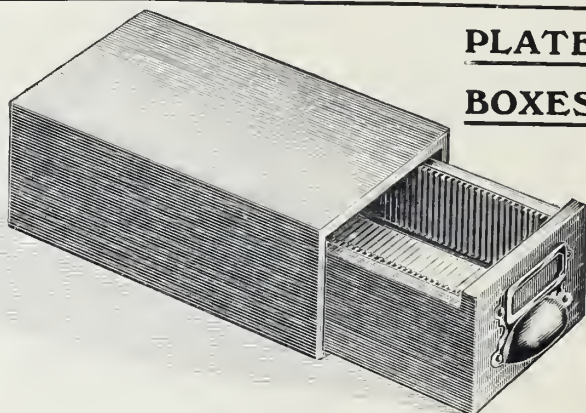


PLATE BOXES.

Fig. 139.

NEGATIVE STORAGE CABINET.

Well-made varnished Pine Drawers with Brass Handles, and fitted with Metal Grooves, to hold 96 negatives each. Slots are provided so that the drawers can easily be fitted together in cabinet form.

1/2-plate, 4/- each; 5 x 4, 4/6 each; 1/2-plate, 5/-

RETOUCHING PENCILS.

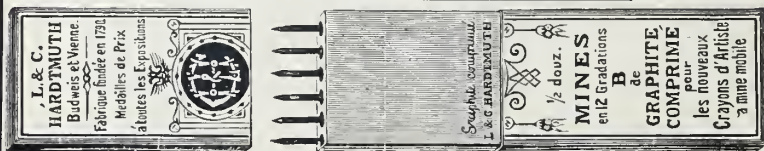


Fig. 141.



Fig. 142.

Graphite Comprime in 12 degrees, 6 H., 4 H., 2 H., H., F., HB., B., BB., 3 B., 1 B., 6 B. Ever-pointed Holders, 8d. each. Refills, per Box 6, 1/9.

Black Chalk Crayons in 5 degrees, 1, 2, 3, 4, 5 (for working up enlargements, Bromide, etc.) Ever-pointed Holders, 9d. each. Refills, per Box 6, 5d.

Cedar Pencils (Black or White Chalk), 2d. each; per dozen, 1/6.

THE

"Thames" Colour Plate.

The Gold Medal under the "Henderson Trust" for 1908-9, for the most notable advance on Photography, was awarded to Mr. C. L. Finlay for the Invention of the "Thames" Colour Plate.

Speed.—Excellent work in $\frac{1}{12}$ of a second was exhibited at the Royal Photographic Exhibition, 1909.

The "Thames" Plate in Daily Use.—For Pictorial and Portrait Photography its use is at once apparent. But it is being increasingly adopted for scientific, commercial, and business purposes, where colour is the leading feature. Dealers in works of art, growers of rare flowers, gardeners, manufacturers of china, porcelain, decorative tiles, wall papers, stained glass, artistic furniture, posters, etc., designers, makers of evening gowns and millinery are all finding it indispensable in their business relations with customers at a distance. The copying of pictures in colour in private collections and the galleries for publication can now be effected with truth and at small cost. We hold the opinion of one of the most celebrated houses in the illustrative trade that the "Thames" Colour Plate is excellently adapted to this purpose.

For the Lantern.—The remarkable brilliancy of the "Thames" Colour plate makes it available for lanterns of small illuminating power. Friends in the Colonies and in foreign countries should have in mind that there will be a ready market in this country for photographs in colour of topical scenes and events made by the "separate" method of the "Thames" Colour Plate, permitting of duplication. They would be a complete novelty.

PRICES.

"Separate" Method for 4 plates and 2 colour screens,					"Combined" Method for box of 4 plates,				
			Inland Postage.					Inland Postage.	
$3\frac{1}{2} \times 2\frac{1}{2}$	...	2/6	...	3d.	$3\frac{1}{2} \times 2\frac{1}{2}$	...	2/6	...	2d.
$3\frac{1}{4} \times 3\frac{1}{4}$	...	2/6	...	3d.	$3\frac{1}{4} \times 3\frac{1}{4}$	...	2/6	...	2d.
$4 \times 3\frac{1}{4}$	...	2/6	...	3d.	$4 \times 3\frac{1}{4}$	...	3/-	...	3d.
$4\frac{1}{4} \times 3\frac{1}{4}$	...	2/6	...	3d.	$4\frac{1}{4} \times 3\frac{1}{4}$	...	3/-	...	2d.
5×4	...	4/-	...	4d.	5×4	...	4/6	...	3d.
$5\frac{1}{2} \times 3\frac{1}{2}$	...	4/-	...	4d.	$5\frac{1}{2} \times 3\frac{1}{2}$	...	4/6	...	3d.
$6\frac{1}{2} \times 4\frac{3}{4}$	...	5/3	...	4d.	$6\frac{1}{2} \times 4\frac{3}{4}$	...	6/-	...	3d.
7×5	...	7/6	...	4d.	7×5	...	7/6	...	3d.
$8\frac{1}{2} \times 6\frac{1}{2}$	...	10/6	...	5d.	$8\frac{1}{2} \times 6\frac{1}{2}$	...	12/-	...	4d.
$9 \times 12\text{cm}$	...	3/-	} postage extra.		$9 \times 12\text{cm}$	...	3/-	} postage extra.	
$13 \times 18\text{cm}$	...	7/6			$13 \times 18\text{cm}$	...	7/6		
Extra screens and 1 plates can be supplied.					Other sizes on demand.				

Compensating filter for Lens (bought once only), **1/6**

Box of chemicals, etc., including magnifying glass, **5/-**

Magnifying glass for examination of exposed plate included in above, **1/-**

REVISED PRICES.

LUMIÈRE

Autochrome Plates and Accessories.

$3\frac{1}{4} \times 3\frac{1}{4}$...	2/6 per box of 4 plates	$8\frac{1}{2} \times 6\frac{1}{2}$...	14/- per box of 4 plates
$4\frac{1}{4} \times 3\frac{1}{4}$...	3/- " "	9×12 c/m ...	3/- " "
5×4 ...	4/6 " "	13×18 c/m ...	7/6 " "
$5\frac{1}{2} \times 3\frac{1}{2}$...	4/6 " "	18×24 c/m ...	14/- " "
$6\frac{1}{4} \times 4\frac{3}{4}$...	7/6 " "	45×107 m/m ...	2/- " "
$6\frac{3}{4} \times 3\frac{3}{4}$...	6/- " "		

Taking Screens				Screen Holders			
(absolutely necessary).				FOR 3 x 3 c/m screen, fitting lens hoods, from			
3 x 3 c/m ($1\frac{3}{16} \times 1\frac{3}{16}$ in.)	...	...	3/-	$4\frac{1}{2} \times 4\frac{1}{2}$ c/m to $1\frac{1}{2}$ in. diameter	...	...	3/6
$4\frac{1}{2} \times 4\frac{1}{2}$ c/m ($1\frac{3}{4} \times 1\frac{3}{4}$ in.)	...	...	4/-	6×6 c/m to $1\frac{9}{16}$ in.	...	...	4/-
6×6 c/m ($2\frac{3}{8} \times 2\frac{3}{8}$ in.)	...	...	5/-	9×9 c/m to $2\frac{1}{8}$ in.	...	...	5/-
9×9 c/m ($3\frac{3}{8} \times 3\frac{3}{8}$ in.)	...	...	7/6	12×12 c/m to $3\frac{1}{8}$ in.	...	...	7/-
12×12 c/m ($4\frac{3}{4} \times 4\frac{3}{4}$ in.)	...	...	12/-				9/-

CHEMICALS.

Bath 1.—Concentrated Quinomet Solution (for 1st and 2nd Development),

Bottle of 35 ozs. (sufficient for 9 pints normal developer)	...	...	...	...	4/6
" 17 " (" $4\frac{1}{2}$ " )	...	...	...	...	2/6
" 9 " (" $2\frac{1}{4}$ " )	...	...	...	...	1/6
" $4\frac{1}{2}$ " (" 1 " )	...	...	...	...	1/-

QUINOMET.—10 grammes ... 1/6

Bath 2.—Pot. Permanganate and Sulphuric Acid (for Reversal).

Set sufficient for 35 ozs. solution ... 6d.
VARNISH for Autochrome Plates ... 6d. per bottle.

VIRIDA PAPERS (for safe Dark-room Light).

7×5 (13×18 c/m) ...	1/- per packet,	16×12 (30×40 c/m) ...	3/6 per packet.
$9\frac{1}{2} \times 7$ (18×24 c/m) ...	1/6 " "	20×16 (40×50 c/m) ...	6/- " "
12×10 (25×30 c/m) ...	2/6 " "		

VIRIDA DARK-ROOM LAMPS, for Oil or Candle, complete ... 4/6

BINDING PAPER.

applied by heat (the most perfect method).

25 metres (27 yards) ... 2/6 50 metres (54 yards) ... 3/9

BINDING TOOL.

For use with above paper (most convenient) ... 5/6

FOLDING VIEWING FRAMES.

$4\frac{1}{4} \times 3\frac{1}{4}$...	6/- each,	9×12 c/m ...	6/- each.
5×4 ...	6/6 " "	13×18 c/m ...	7/- " "
$6\frac{1}{2} \times 4\frac{3}{4}$...	7/- " "		

Plates.

THE "N. & G." PLATES

For Hand-Camera Work.

The "N. & G." Plates have been placed on the market in order to provide users of "N. & G." Cameras, and others, with a reliable material, rich in silver, and of uniform speed. They are prepared from Picked Emulsion, coated on specially thin glass.

While the highest possible degree of rapidity is essential in plates intended principally for hand-camera work, we have not aimed to secure speed at all costs, and to the detriment of other equally important qualities—Fineness of Grain and Freedom from Fog. The "N. & G." Plates will be found to produce excellent negatives rich in half-tones and the finest detail. They develop easily to full printing density, and are absolutely free from pin-holes or other blemishes, which are particularly annoying in small negatives intended for enlarging, lantern slides, etc.

We stock our Plates in all Hand-Camera sizes, either Plain or Backed.



Fig. 143.

PRICES—

	Speeds about H. & D.	3½ x 2½ Per doz.	1-Plate Per doz.	5 x 4 Per doz.	1-Plate Per doz.
"N. & G." SPECIAL ... (Fine Grain).	200	1/-	1/6	2/6	3/8
"N. & G." H.S. ... (High Speed).	350	1/-	1/6	2/6	3/8
"N. & G." S.R. ... (Special Rapid).	250	9d.	1/-	1/7	2/3
"N. & G." ORTHO ...	170	9d.	1/-	1/7	2/3
"N. & G." "NYDIA" ... (Fine Grain).	250	—	1/2 Pkt. of 8.	—	—
BACKED PLATES ... (Extra All Makes).	—	3d.	3d.	4d.	6d.

The "N. & G." Developer

For Hand-Camera Work.

This is a Pyro-Soda Developer, prepared from the purest chemicals and distilled water, according to a special formula. It preserves the full energy of the ingredients undiminished for any length of time, and gives brown negatives of excellent quality, which can be made "soft" or "plucky" at will, to suit any printing process.

No other Developer will give such good negatives from short and "high-speed" exposures.

Price 1/6 and 2/6 the Set of Two Bottles Concentrated Solutions.
Packing and Inland Postage, 9d.

Plates. Other Makes Supplied to Order.

	$3\frac{1}{4} \times 3\frac{1}{4}$	$3\frac{1}{2} \times 2\frac{1}{2}$	$4\frac{1}{4} \times 3\frac{1}{4}$	5×4	$5\frac{1}{2} \times 3\frac{1}{2}$	$6\frac{3}{4} \times 3\frac{1}{4}$ (Stereo)	$6\frac{1}{2} \times 4\frac{3}{4}$	7×5	$8\frac{1}{2} \times 6\frac{1}{2}$	10×8	12×10
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
" Paget " XX, XXX, Special Rapid, Ortho S.R. and Extra Special Rapid ...	—	0 9	1 0	1 7	—	1 9	2 3	3 5	4 3	7 3	10 6
XXXXX and "Swift" ...	—	1 0	1 6	2 6	—	2 9	3 8	5 0	6 6	10 0	16 0
" Ilford " Lantern, Ordinary, "Empress," Special Rapid, Chromatic, "Zenith," and "Process" ...	1 0	0 9	1 0	1 7	1 7	2 0	2 3	3 0	4 3	7 3	10 6
"Rapid Isochrom" ...	1 3	0 11	1 3	2 0	2 0	—	3 0	3 9	5 6	9 6	13 0
"Monarch" ...	1 6	1 0	1 6	2 6	2 6	3 3	3 8	4 6	6 6	10 0	16 0
" Imperial " Lantern, Process, Ordinary, "Sovereign," Special Rapid and Ortho ...	1 0	0 9	1 0	1 7	1 7	1 10	2 3	3 0	4 3	7 3	10 6
"Ortho Special Sensitive" ...	1 3	—	1 3	2 0	2 0	—	3 0	3 9	5 6	9 6	13 0
"Flashlight" ...	1 6	1 0	1 6	2 6	2 6	2 10	3 8	4 6	6 6	10 0	16 0
Edwards' Medium, Instantaneous and Snap-Shot, Isochromatic	—	0 9	1 0	1 7	—	2 0	2 3	3 0	4 3	7 3	10 6
" Wellington " Lantern, Landscape, Speedy and Isochromatic ...	1 0	—	1 0	1 7	1 7	2 0	2 3	3 0	4 3	7 3	10 6
" Barnet " Ordinary, Extra Rapid, Orthochromatic and "Red Seal" Super Speed Ortho ...	—	0 3	0 3	0 4	—	0 6	0 6	0 9	0 9	1 0	1 6
Backed Plates, all makes ... extra											

Wratten and Wainwright and Autochrome Plates (see Special List).

The Special "N. & G." Adaptable Printing Frame.

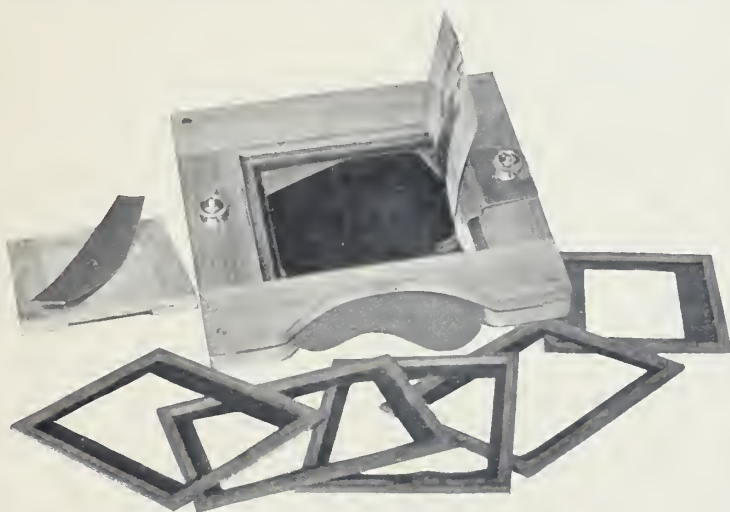


Fig. 143 B.

This Frame has been designed to meet the requirements of those desiring a Printing Frame that will take negatives of various sizes and permit of the negative to be placed in any desired position.

Of the special features claimed, the following are the most important points:—

A Carrier to take the negatives so that the negative can be placed in any position.

A carefully designed clip, which holds the print in position quite rigidly and permits the whole of the print to be examined during the printing operations.

Sets of masks are provided of various shapes and sizes, which very much simplifies the difficult question of deciding what part and how much of a negative is required, and also gives a very clear idea of what the ultimate result will look like.

The masks are indestructible, being made of specially prepared material, and will stand hard wear.

The Frame is of "N. & G." first quality manufacture, and can unquestionably be considered to represent one of the most perfect and certainly most useful of its kind.

PRICES.

$5\frac{1}{2} \times 3\frac{1}{2}$ Plate, will take $5\frac{1}{2} \times 8\frac{1}{2}$ Plate, $\frac{1}{2}$ Plate, or $8\frac{1}{2} \times 2\frac{1}{2}$ Plate	7/6
Extra Masks, 4d. each.	
$\frac{1}{2}$ Plate, will take $\frac{1}{2}$ Plate, 5×4 and smaller size negatives	7/6
Extra Masks 5d. each.	
5×4 Plate, will take 5×4 Plate, $\frac{1}{2}$ Plate, or $3\frac{1}{2} \times 2\frac{1}{2}$ Plate	6/7
Extra Masks 4d. each.	
$\frac{1}{2}$ Plate, will take either $\frac{1}{2}$ Plate or $3\frac{1}{2} \times 2\frac{1}{2}$ Plate	5/7
Extra Masks, 3d. each.	

(Three Masks provided with each Frame.)

Order

Wratten & Wainwright Plates.

Size Inches.	Ord., Inst., I D.S., Allo. and Process.		Speed and Verichrome.		Bathed Plates, Process Pan., and Panchro- matic.	X-Ray.	
	s.	d.	s.	d.		s.	d.
2 × 2 } 2 × 1 $\frac{3}{4}$ }	0	9	0	9	All sizes under 4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ s. d. 1 6		
2 $\frac{3}{8}$ × 2 $\frac{1}{8}$ } 2 $\frac{3}{8}$ × 1 $\frac{3}{4}$ }	0	10	1	0			
3 $\frac{1}{2}$ × 2 $\frac{1}{2}$ } 3 $\frac{1}{4}$ × 3 $\frac{1}{4}$ }	1	0	1	3			
4 $\frac{1}{4}$ × 1 $\frac{3}{4}$ }							
4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ ($\frac{1}{4}$)	1	6	1	9		2	0
5 × 4	2	3	2	9		3	0
5 $\frac{1}{2}$ × 3 $\frac{1}{2}$	2	3	2	9		3	0
6 $\frac{3}{4}$ × 3 $\frac{1}{4}$	3	0	3	6		4	0
6 $\frac{1}{2}$ × 4 $\frac{1}{4}$	3	0	3	6		4	0
6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ ($\frac{1}{2}$)	3	3	4	0		4	3
						4	8

Backing—At Per Doz.

$\frac{1}{4}$'s, 3d.; 5 × 4 and $\frac{1}{2}$ s', 4d.; 7 $\frac{1}{2}$ × 5 and $\frac{1}{2}$, 6d.; 10 × 8, 9d.; 12 × 10, 1s.; 15 × 12, 1/6 All other sizes at proportionate prices.

Wratten & Wainwright Screens.

Cemented K Filters.

Inch.	Circles or Squares unmounted.		Mounted as Lens-cap.		Mounted in light metal spring cell.		Mounted in special screw cell to order.	
	s.	d.	s.	d.	s.	d.	s.	d.
1 $\frac{1}{2}$	4	3	6	3	6	3	about 7	9
1 $\frac{5}{8}$	4	6	6	6	6	6	8	0
1 $\frac{3}{4}$	5	0	7	0	7	6	9	0
2	5	6	8	0	8	0	9	6
2 $\frac{1}{8}$	6	0	8	6	9	0	10	6
2 $\frac{1}{2}$	6	9	9	6	9	9	11	3
3	9	3	12	3	12	3	14	3
3 $\frac{1}{4}$	10	6	13	6	13	9	15	6
3 $\frac{1}{2}$	11	9	15	0	16	3	18	3
4	14	3	17	9	19	0	21	9
5	20	0	24	0	25	6	30	0

Intermediate sizes at price of next larger.

Wratten & Wainwright.

THE firm of Wratten and Wainwright, Ltd., who were among the first manufacturers of gelatine dry plates, have of late years devoted much attention to the production of plates which are completely sensitive to all colours. Most photographers have felt, when viewing the reproduction of a well-known scene, that the tone values of the reproduction by no means represented the tone values of the original scene. This difference in tone values is largely due to the difference between the values by which the photographic plate renders in monochrome the various colours and their luminosities when perceived by the eye. The methods by which this difference is to be avoided are described in detail in a little booklet entitled "Real Orthochromatism," which may be obtained gratis from us. For a more extended discussion of the whole subject the recent book by Dr. Kenneth Mees, entitled "The Photography of Coloured Objects," should be consulted. We can supply this book at a cost of 1s. 3d., post free.

The colour-sensitive plates, and especially the "Wratten Panchromatic" plate, manufactured by Messrs. Wratten and Wainwright, Ltd., are now acknowledged by all advanced workers to represent the highest achievement of plate making.

In addition to plates, Messrs. Wratten and Wainwright, Ltd., manufacture colour filters for use on the lens in order to aid the plate in its correct translation of luminosity values into monochrome. These filters are of the highest possible quality, and we would especially direct our readers' attention to the filters cemented in optical flats, which are this year, for the first time, made available in small sizes. All good workers are careful to pay the greatest attention to the selection of a good lens, but it is of little use to select a lens giving the finest definition if the image formed by that lens is to be degraded by a filter made of glass of lower quality. For this reason, Messrs. Wratten and Wainwright, Ltd., have prepared filters made with optical 'flats,' of which the surfaces have been prepared with the same care as those of lenses, and have been tested by the same method.

W. W. Specialities see page 163.

Films.

Films Sizes. Inches.	B. J. Edwards.	Ilford.	Marion Instan- taneous.	Marion Extreme Rapidly.	"Premo" Film Pack.
$3\frac{1}{2} \times 2\frac{1}{2}$	1/3	1/-	—	—	1/9
$4\frac{1}{4} \times 3\frac{1}{4}$	1/9	1/6	1/6	2/-	3/-
5 × 4	2/6	2/6	2/6	3/5	3/9
$6\frac{1}{2} \times 4\frac{3}{4}$	3/8	3/8	3/8	5/1	6/-

Kodak Films for Roll Holders.

		Six Exposures.				Six Exposures.	
		s.	d.			s.	d.
$3\frac{1}{4}$ in. R. H.	$3\frac{1}{4} \times 3\frac{1}{4}$	1	6	5 in. R. H.	5 × 4	1	11
4 ,, R. H.	4 × 5	1	11	$6\frac{1}{2}$,, R. H.	$6\frac{1}{2} \times 4\frac{3}{4}$	3	0
$4\frac{1}{4}$,, R. H.	$4\frac{1}{4} \times 3\frac{1}{4}$	1	6	7 ,, R. H.	7 × 5	3	4

Printing-out Papers.

P.O.P. "Ilford."

Pink, White, Mauve, Matt, Carbon, and Special
(for Hard Negatives).

		s.				s.	
Per Packet of				Per Packet of			
$3\frac{1}{2} \times 2\frac{1}{2}$ in. ...	57 sheets ...	1	0	$6\frac{1}{2} \times 4\frac{3}{4}$ in. ...	16 sheets ...	1	0
$3\frac{1}{2} \times 3\frac{1}{2}$,, ...	40 ,, ...	1	0	$7\frac{1}{2} \times 5$,, ...	13 ,, ...	1	0
$4\frac{1}{4} \times 3\frac{1}{4}$,, ...	36 ,, ...	1	0	$8\frac{1}{2} \times 6\frac{1}{2}$,, ...	9 ,, ...	1	0
5 × 4 ,, ...	24 ,, ...	1	0	10 × 8 ,, ...	6 ,, ...	2	0
6 × $4\frac{1}{4}$,, ...	24 ,, ...	1	0	12 × 10 ,, per tube of 8 sheets		2	0

P.O.P. "Imperial."

Glossy only:—Pink, White or Mauve.

		1/- Pkt.	6d. Pkt.			1/- Pkt.	6d. Pkt.
		57 Pieces	24 Pieces			24 Pieces	10 Pieces
$3\frac{1}{2} \times 2\frac{1}{2}$...		47	20	6 × $4\frac{1}{4}$...		16	
$3\frac{1}{2} \times 3\frac{1}{2}$...		40	18	$6\frac{1}{2} \times 4\frac{3}{4}$...		13	
$3\frac{1}{2} \times 3\frac{1}{2}$...		36	16	$7\frac{1}{2} \times 5$...		9	
$4\frac{1}{4} \times 3\frac{1}{4}$...		24	10	$8\frac{1}{2} \times 6\frac{1}{2}$...		6	
5 × 4 ...				10 × 8 ...			

In Tubes.

		s.	d.
Tube containing 2 sheets, $24\frac{1}{2} \times 17$ in. ...		1	4
,, ,, 6 ,, ...		4	0
,, ,, 12 ,, ...		7	6

"Wellington" P.O.P.

GLOSSY SURFACE: Pink, White, and Mauve.
MATT SURFACE: White only.

Carbon : The New Grade, with a beautiful surface.

Inches.		PRICES:	s.	d.	Inches.		PRICES:	s.	d.
$3\frac{1}{2} \times 2\frac{1}{2}$	per packet of 28 sheets		0	6	$4\frac{1}{4} \times 3\frac{1}{4}$	per packet of 18 sheets		0	6
$3\frac{1}{2} \times 2\frac{1}{2}$	"	57	"	1 0	$4\frac{1}{4} \times 3\frac{1}{4}$	"	36	"	1 0
$3\frac{1}{2} \times 3\frac{1}{4}$	"	23	"	0 6	5×4	"	12	"	0 6
$3\frac{1}{2} \times 3\frac{1}{4}$	"	47	"	1 0	5×4	"	24	"	1 0
$3\frac{1}{2} \times 3\frac{1}{2}$	"	20	"	0 6	$5\frac{1}{2} \times 3\frac{1}{2}$	"	24	"	1 0
$3\frac{1}{2} \times 3\frac{1}{2}$	"	40	"	1 0	$6 \times 4\frac{1}{4}$	"	24	"	1 0
$4\frac{1}{4} \times 2\frac{1}{2}$	"	23	"	0 6	$6\frac{1}{2} \times 4\frac{1}{4}$	"	16	"	1 0
$4\frac{1}{4} \times 2\frac{1}{2}$	"	47	"	1 0					

"Goldona" (Self-Toning Papers.)

All Varieties same Price—Glossy, Matt or Satin.

$\frac{1}{4}$ -plate ($4\frac{1}{4} \times 3\frac{1}{4}$ in.)	per packet of 28 pieces	<div style="display: flex; align-items: center; justify-content: center;"> <div style="font-size: 3em; margin-right: 10px;">}</div> <div> 1/- (up to $\frac{1}{4}$-plate, also in 6d. packets). </div> </div>
5×4 in.	"	19	"	...	...
$5\frac{1}{2} \times 3\frac{1}{2}$ in.	"	19	"	...	...
$6 \times 4\frac{1}{4}$ in.	"	15	"	...	...
$\frac{1}{2}$ -plate ($6\frac{1}{2} \times 4\frac{1}{2}$)	"	12	"	...	...
$7\frac{1}{2} \times 5$ in.	"	10	"	...	...
$8\frac{1}{2} \times 6\frac{1}{2}$ in.	"	7	"	

POST CARDS.

								s.	d.
$4\frac{1}{4} \times 3\frac{1}{4}$ in.	Per packet of 8 (with mask)	...	...	...	...	...	...	0	6
$5\frac{1}{2} \times 3\frac{1}{2}$ in.	"	6	...	...	...	...	...	0	6
$5\frac{1}{2} \times 3\frac{1}{2}$ in.	"	12	...	...	...	...	...	1	0
$5\frac{1}{2} \times 3\frac{1}{2}$ in.	"	100	...	...	...	...	...	6	0

"Noctona" (Gaslight).

All Varieties same Price—Pearl-Matt, Satin or Glossy.

								s.	d.
$3\frac{1}{2} \times 2\frac{1}{2}$ in.	Per packet of 12 pieces	...	...	...	...	...	...	0	5
$3\frac{1}{2} \times 3\frac{1}{2}$ in.	"	"	...	...	...	...	...	0	6
$\frac{1}{4}$ -plate ($4\frac{1}{4} \times 3\frac{1}{4}$ in.)	"	"	...	...	...	...	...	0	6
$5\frac{1}{2} \times 3\frac{1}{2}$ in.	"	"	...	...	...	...	...	0	8
$5\frac{1}{2} \times 3\frac{1}{2}$ in. (Cabinet)	"	"	...	...	...	...	...	0	9
$6 \times 4\frac{1}{4}$ in.	"	"	...	...	...	...	...	0	10
$\frac{1}{2}$ -plate ($6\frac{1}{2} \times 4\frac{1}{2}$ in.)	"	"	...	...	...	...	...	1	0
$\frac{1}{2}$ -plate ($8\frac{1}{2} \times 6\frac{1}{2}$ in.)	"	6 pieces	1	0

POST CARDS.—All Grades.

$5\frac{1}{2} \times 3\frac{1}{2}$ in.	Per Packet of 18, with mask	1	0
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Platinum Papers.—"Ilford' Platona."

A genuine Platinum Paper at popular prices. In two varieties, Rough and Smooth.

Prices (in sealed tin tubes).							Per Tin.	With Postage.
							s. d.	s. d.
$4\frac{1}{4} \times 3\frac{1}{4}$	...	20 pieces	...	...	...	...	1 8	1 10
5×4	...	20	"	...	...	...	2 4	2 6
$6 \times 4\frac{1}{4}$	...	20	"	...	...	...	3 3	3 5
$6\frac{1}{2} \times 4\frac{1}{2}$	...	20	"	...	...	...	3 8	3 11
$8\frac{1}{2} \times 6\frac{1}{2}$	...	20	"	...	...	...	6 4	6 7
10×8	...	10	"	...	...	...	4 7	4 10

Papers.

"Paget' Self-Toning" Papers.

Matt, Glossy and Cream Crayon C.C. Papers, and Simplex Matt and Glossy Gelatine Papers.

These papers only need fixing in Hypo., and the "Matt" qualities especially are appreciated for their artistic tones.

Supplied in two surfaces, Matt and Glossy. Requires fixing only.

$2\frac{1}{2} \times 3\frac{1}{4}$	18 sheets	Per packet	6d.	5×4	16 sheets	Per packet	1/0
$2\frac{3}{4} \times 2\frac{1}{2}$	25 "	"	6d.	$6 \times 4\frac{1}{4}$	13 "	"	1/0
$3\frac{1}{2} \times 3\frac{1}{2}$	13 "	"	6d.	$6\frac{1}{2} \times 4\frac{3}{4}$	10 "	"	1/0
$3\frac{3}{4} \times 4\frac{1}{4}$	22 "	"	1/-	$8\frac{1}{2} \times 6\frac{1}{2}$	6 "	"	1/0

Other Sizes obtained to order at short notice.

Also supplied in card thickness, Matt and Glossy, 1/0 packets.

Post Cards, with 2 masks, in packets, holding 1 dozen,
Matt or Glossy, 1/0.

"Paget' Phosphate" Paper.

Packets.				Packets.			
$2\frac{5}{8} \times 1\frac{3}{4}$	...	...	36 pieces 6d.	$4\frac{1}{4} \times 3\frac{1}{4}$	...	...	22 pieces 1/0
$2\frac{3}{4} \times 2\frac{1}{2}$	...	...	24 " 6d.	5×4	...	...	16 " 1/0
$3\frac{1}{4} \times 2\frac{1}{2}$	...	...	18 " 6d.	$5\frac{1}{2} \times 3\frac{3}{4}$	...	...	16 " 1/0
$3\frac{3}{4} \times 3\frac{1}{2}$	...	...	12 " 6d.	$6 \times 4\frac{1}{4}$	...	...	14 " 1/0
$4\frac{1}{4} \times 3\frac{1}{4}$	...	...	10 " 6d.	$6\frac{1}{2} \times 4\frac{3}{4}$	...	...	10 " 1/0
				$8\frac{1}{2} \times 6\frac{1}{2}$	...	...	6 " 1/0

POST CARDS.

Standard Size, $5\frac{1}{2} \times 3\frac{1}{4}$	...	...	...	Per Packet of 6 Cards	...	...	6d.
" " $5\frac{1}{2} \times 3\frac{1}{4}$	...	...	...	" " " 14	"	...	1/0
" " $5\frac{1}{2} \times 3\frac{1}{4}$	...	...	...	Per Box of 144	"	...	9/0
Court " $4\frac{1}{4} \times 3\frac{1}{4}$	...	...	...	Per Packet of 16	"	...	1/0
" " $4\frac{1}{4} \times 3\frac{1}{4}$	...	...	...	Per Box of 144	"	...	8/0

"Paget' Prize Gravura" Gaslight.

No. 1.—Matt, Glossy, or Satin Surface for Ordinary Negatives. Black Tones only.

No. 2.—Matt only. For Colour from Olive Brown to Red Chalk. With No. 2 "Gravura."

In Sealed Tubes.

10 ft. \times $24\frac{1}{2}$ in., each, 5/6; 10 ft. \times 34 in., 7/7; 20 ft. \times 34 in.; 15/2.

In Packets.

18 pieces	$2 \times 1\frac{3}{4}$	...	...	3d.	32 pieces	$4\frac{1}{4} \times 3\frac{1}{4}$	...	...	1/0
27 "	$2\frac{1}{2} \times 2\frac{1}{2}$	...	...	6d.	22 "	5×4	...	...	1/0
20 "	$3\frac{1}{2} \times 2\frac{1}{2}$	...	...	6d.	18 "	$6\frac{1}{2} \times 3\frac{3}{4}$	...	...	1/0
16 "	$3\frac{1}{2} \times 3\frac{1}{4}$	...	...	6d.	18 "	$6 \times 4\frac{1}{4}$	...	...	1/0
18 "	$3\frac{3}{4} \times 3\frac{1}{2}$	...	...	6d.	14 "	$6\frac{1}{2} \times 4\frac{3}{4}$	...	...	1/0
16 "	$4\frac{1}{4} \times 3\frac{1}{4}$	...	...	6d.	11 "	$7\frac{1}{2} \times 5$	...	...	1/0
6 "	10×8	...	...	1/1	8 "	$8\frac{1}{2} \times 6\frac{1}{2}$	...	...	1/0
6 "	12×10	...	...	1/7	6 "	15×12	...	...	2/4



AN EXAMPLE OF FINE GRADATION.

Negative on
"PAGET" PRIZE XXXXX PLATE.

Print on
"PAGET" PRIZE SELF-TONING PAPER.

"BARNET" BROMIDE PAPER.

THE DOUBLE-SPEED BROMIDE Series is now ready in five grades. As a Paper for Enlarging it is the greatest advance made for years. Every amateur who does his own enlarging should try it, as it greatly simplifies the process. It is also excellent for small prints.

STANDARD PRICES.

"BARNET" Double-Speed.

Platino Matt.
Smooth Ordinary.
Velbro (Carbon Surface).
Extra Smooth.
Linen Surface.



Taken with a

"BARNET" SUPER-SPEED PLATE

400 H. & D. & Double Ortho Efficiency.

Specially made for Focal Plane and High Speed Shutter Work.

Papers.

"Barnet" Gaslight Bromide Paper.

Oyster-Shell, Matt and Glossy. Card, Matt and Glossy.

PRICES.

Sizes. Inches.	Pieces.		Sizes. Inches.	Pieces.	
$2\frac{5}{16} \times 1\frac{13}{16}$...	30 ...	6d.	$4\frac{1}{2} \times 3\frac{1}{2}$...	12 ...	6d.
$2\frac{1}{2} \times 2\frac{1}{2}$...	26 ...	6d.	5×4 ...	12 ...	9d.
$3\frac{1}{2} \times 2\frac{1}{2}$...	20 ...	6d.	$6 \times 4\frac{1}{2}$...	12 ...	10d.
$3\frac{1}{2} \times 3\frac{1}{2}$...	18 ...	6d.	$6\frac{1}{2} \times 4\frac{3}{4}$...	12 ...	1/0
$3\frac{1}{2} \times 3\frac{1}{2}$...	15 ...	6d.	$7\frac{1}{2} \times 5$...	12 ...	1/3
Sizes. Inches.		Twelve Pieces.	Sizes. Inches.		Twelve Pieces.
8×6 ...	...	1/9	12×10 ..	...	4/2
$8\frac{1}{2} \times 6\frac{1}{2}$ ...	...	2/0	$12\frac{1}{2} \times 10\frac{1}{2}$ ...	...	4/6
10×8 ...	...	2/9	15×12 ..	...	6/3
					Six Sheets.
					2/2
					2/4
					3/3

"Barnet" Bromide Papers.

Velbro (Carbon Surface), Platino-Matt (Smooth and Rough), Platino-Matt (Cream Crayon), Platino-Matt (Card), Ordinary (Smooth and Rough, Extra Brilliant), Enamel Surface (Pink and White), Tiger Tongue (White and Cream).

PRICES.

$2\frac{5}{16} \times 1\frac{13}{16}$ 30 sheets ...	6d.	$3\frac{1}{2} \times 2\frac{1}{2}$ 16 sheets ...	6d.
$2\frac{1}{2} \times 2\frac{1}{2}$ 24 " ...	6d.	$4\frac{1}{2} \times 2\frac{3}{4}$ 12 " ...	6d.
$2\frac{1}{2} \times 2\frac{1}{2}$ 21 " ...	6d.	$3\frac{1}{2} \times 3\frac{1}{2}$ 12 " ...	6d.
	12 Sheets in packet.		6 Sheets in packet.
$4\frac{1}{2} \times 3\frac{1}{2}$...	6d.	10×8 ...	2/9
5×4 ...	9d.	12×10 ...	2/2
$6\frac{1}{2} \times 4\frac{3}{4}$...	1/0	$12\frac{1}{2} \times 10\frac{1}{2}$...	2/4
$7\frac{1}{2} \times 5$...	1/3	15×12 ...	3/3
$8\frac{1}{2} \times 6\frac{1}{2}$...	2/0	$15\frac{1}{2} \times 12\frac{1}{2}$...	3/6
		18×15 ...	5/0

"Barnet" Sepia Toner.

For Toning Bromide and Gaslight Prints to a rich, permanent Sepia. Tones out in two minutes. Perfectly easy to use.

1/0 and 2/6 sets.

"Barnet" Self-Toning Paper.

Glossy and Matt.

$2\frac{1}{2} \times 2\frac{1}{2}$...	28 Pieces	...	6d.
$3\frac{1}{2} \times 2\frac{1}{2}$...	20 "	...	6d.
$3\frac{1}{2} \times 3\frac{1}{2}$...	16 "	...	6d.
$3\frac{1}{2} \times 3\frac{1}{2}$...	14 "	...	6d.
$4\frac{1}{2} \times 3\frac{1}{2}$...	12 "	...	6d.
$4\frac{1}{2} \times 3\frac{1}{2}$...	28 "	...	1/0
5×4 ...	19 "	...	1/0
$6 \times 4\frac{1}{2}$...	15 "	...	1/0
$6\frac{1}{2} \times 4\frac{3}{4}$...	12 "	...	1/0
7×5 ...	11 "	...	1/0
$7\frac{1}{2} \times 5$...	10 "	...	1/0
$8\frac{1}{2} \times 6\frac{1}{2}$...	7 "	...	1/0

The "Wellington" Bromide Papers.

Supplied in the following Grades:—

Platino-Matt Surface.—Smooth—S; Rough—R; Cream Crayon—C.C.; Special Thick—X and Xtra Rough.

Ordinary Surface.—Rough—R; Smooth—S.

Enammo (Glazed Surface Bromide).—Thin, made in three shades, Pink, White, and Mauve; Special Thick, Mauve only.

Prices and Sizes of the above.

Size. Inches.				Size. Inches.	Twelve Sheets.	Six Sheets.
$2\frac{1}{2} \times 2\frac{1}{2}$	20 sheets	...	6d.	$6\frac{1}{2} \times 6\frac{1}{2}$	1/6	—
$3\frac{1}{2} \times 2\frac{1}{2}$	32 "	...	1/0	$8\frac{1}{2} \times 6\frac{1}{2}$	2/0	—
$3\frac{1}{2} \times 3\frac{1}{2}$	30 "	...	1/0	10×8	2/9	—
$3\frac{1}{2} \times 3\frac{1}{2}$	28 "	...	1/0	12×10	4/2	2/2
$4\frac{1}{2} \times 3\frac{1}{2}$	24 "	...	1/0	$12\frac{1}{2} \times 10\frac{1}{2}$	4/6	2/4
5×4	18 "	...	1/0	15×12	6/3	3/3
$7\frac{1}{2} \times 2\frac{1}{2}$	18 "	...	1/0	$15\frac{1}{2} \times 12\frac{1}{2}$	6/	3/6
$5\frac{3}{4} \times 4$	14 "	...	1/0	18×15	9/6	5/0
$6\frac{1}{2} \times 4\frac{3}{4}$	12 "	...	1/0			
$7\frac{1}{2} \times 5$	12 "	...	1/3			

The New "Wellington" Self-Toning P.O.P.

One Bath only—HYPO. Beautiful rich tones.

Made in Four Grades:—Glossy, Matt, Thick Glossy and Thick Matt.

PACKETS.

$3\frac{1}{2} \times 2\frac{1}{2}$	20 sheets	...	6d.	5×4	9 sheets	...	6d.
$3\frac{1}{2} \times 3\frac{1}{2}$	16 "	...	6d.	5×4	19 "	...	1/0
$3\frac{1}{2} \times 3\frac{1}{2}$	14 "	...	6d.	$5\frac{1}{2} \times 3\frac{1}{2}$	19 "	...	1/0
$4\frac{1}{2} \times 3\frac{1}{2}$	12 "	...	6d.	$6 \times 4\frac{1}{2}$	15 "	...	1/0
$4\frac{1}{2} \times 3\frac{1}{2}$	28 "	...	1/0	$6\frac{1}{2} \times 4\frac{3}{4}$	12 "	...	1/0

The "Wellington" S.C.P. De Luxe.

(Gaslight).

In Six Grades:—Vigorous Carbon (Matt), Vigorous Art (Satin), Vigorous Glossy—For use with weak or flat negatives. Soft Carbon (Matt), Soft Art (Satin), Soft Glossy—For average negatives.

The "Wellington" S.C.P.

Slow Contact Paper for Gaslight Development.

Made in Ten Grades: Matt, Glossy, Art (White and Tinted), Porcelain, Portrait Matt, Portrait Glossy, Semi-matt, Thick Glossy and Thick Matt.

PRICES OF "WELLINGTON" S.C.P. AND S.C.

$3\frac{1}{2} \times 3\frac{1}{2}$	30 sheets	...	1/0	5×4	18 sheets	...	1/0
$3\frac{1}{2} \times 3\frac{1}{2}$	14 "	...	6d.	$5\frac{1}{2} \times 3\frac{1}{2}$	18 "	...	1/0
$3\frac{1}{2} \times 3\frac{1}{2}$	28 "	...	1/0	$7\frac{1}{2} \times 2\frac{1}{2}$	18 "	...	1/0
$4\frac{1}{2} \times 2\frac{1}{2}$	15 "	...	6d.	$5\frac{1}{2} \times 4$	14 "	...	1/0
$4\frac{1}{2} \times 2\frac{1}{2}$	30 "	...	1/0	$6 \times 4\frac{1}{2}$	14 "	...	1/0
$4\frac{1}{2} \times 3\frac{1}{2}$	12 "	...	6d.	$6\frac{1}{2} \times 4\frac{3}{4}$	12 "	...	1/0
$4\frac{1}{2} \times 3\frac{1}{2}$	24 "	...	1/0				

The "Wellington" S.C.P. Opals.

A New Introduction. (For Pictures of Exquisite Softness and Delicacy).

These Opals are coated with S.C.P. Emulsion, and do not require a dark room for the simple operations of exposure, development and fixing.

$4\frac{1}{2} \times 3\frac{1}{2}$	...	per dozen	1/6	$7\frac{1}{2} \times 5$	...	per dozen	5/3
5×4	...	"	2/6	$8\frac{1}{2} \times 6\frac{1}{2}$	...	"	6/6
$5\frac{1}{2} \times 3\frac{1}{2}$	...	"	2/6	10×8	...	"	10/0
$6\frac{1}{2} \times 4\frac{3}{4}$	...	"	3/8				

NOTE.—"Wellington" S.C.P. Opals are packed in half-dozens.



THE CURFEW HOUR.



Negative taken on a
"WELLINGTON"
Ordinary (Landscape) Plate.

Half-tone from a print on
"WELLINGTON"
Carbon Bromide.

For the Finest Results in all Branches of Photography

Use the

"WELLINGTON" PLATES, PAPERS AND FILMS

LISTED ON PAGES 126, 131 and 136.

Papers for the Oil Process.

A number of excellent papers are available, and we can supply any make. It is desirable that the paper should be somewhat larger than the negative to be printed from.

AUTOTYPE CO.'S	Per packet of 1 dozen pieces.						Per Band.
	5½ × 4½	7 × 5	9 × 7	10½ × 8½	12½ × 10½	15½ × 12½	12ft. × 30in.
Autotype Special. No. 1. A new paper, thickly coated fine, white grain	8d.	10d.	1/6	2/4	3/6	5/0	7/6
No. 2—Ditto, Toned sur- face, with fine grain ...							
No. 76—White	4d.	5d.	9d.	1/2	1/9	2/6	3/9
No. 77—Toned							3/9
No. 90—Smooth toned "Reynolds."							3/0
ILLINGWORTH'S.							
No. 119 White "Whatman"	—	9d.	1/3	1/9	3/0	3/6	5/0
No. 125 Thick Smooth	—	5d.	10d.	1/4	2/0	2/8	3/6
No. 151 "Gravure" White or Toned	—	5d.	10d.	1/4	2/0	2/8	4/6

The Nos. 1 and 2 are the same grades as 76 and 77, but are double coated with gelatine, and therefore much easier to work.

"BROMOIL."—Bromide Paper, Smooth, Matt, specially made for oil pigmenting.

4½ × 3½	5 × 4	½-plate	¾-plate	10 × 8	12 × 10	15 × 12
12 pieces	9 pieces	12 pieces	6 pieces	5 pieces	4 pieces	4 pieces
6d.	6d.	1/-	1/-	1/-	1/3	2/2

"WELLINGTON."—Smooth, Rough and Cream Crayon ordinary Bromide Paper.

4½ × 3½	5 × 4	½-plate	¾-plate	10 × 8	12 × 10	15 × 12
24 pieces	18 pieces	12 pieces	12 pieces	12 pieces	6 pieces	6 pieces
1/-	1/-	1/-	2/-	2/9	2/2	3/3

The **"Griffin" Hop-**
ping Handle for hold-
ing the Brush; greatly
facilitates the pigmenting
and reduces the time and
labour ... 6d.

The **"Griffin" Palette**
Knife ... 9d.

Palettes (oblong) China
9-inch ... 1/6

Palettes (oblong) China,
12-inch ... 2/-

Prepared Hard Blot-
ters, per quire ... 2/6

Retouching Lancets.
with handle, for remov-
ing any portion of the
pigment, brightening high
lights, etc., per box 1/-

Paper Stumps, per bun-
dle ... 4d.

Indiarubber Stumps (for
brightening high lights)
each ... 3d.

"Megilp" (for thinning pig-
ment) ... per tube 6d.

Sensitizing Solution for
"Pigmol" process 1/3

The **"Mortimer" Sen-**
sitizing Solution for
"Bromoil" process (pre-
pared according to the
formula of Mr. F. J.
Mortimer), per set of 2
solutions ... 1/3

Oil Pigment Sundries.



Fig. 144.
PAPER STUMP.



Fig. 145.
PALETTE.



Fig. 146.
HOPPING HANDLE.

Oil-Pigment Sundries.

The "Mortimer" Pigmenting Tray.

This is designed by Mr. F. J. Mortimer, F.R.P.S., Editor of *The Amateur Photographer*, and is of the greatest practical service for Oil-Pigment workers. The Tray is fitted with a frame covered with fine calico, upon which the moist print is placed. Underneath the calico is a pad of wet blotting paper. This method ensures the exact degree of moisture for the print that is so vital.

There are spaces for the brushes, pigments, etc. It is so arranged that a partly finished print may be left on the pad and the Tray closed until it is convenient for the pigmenting to be proceeded with.

Price, complete 5/9.



Fig. 147.



Fig. 147 A.

The "Demachy" Brush.

This new brush is the genuine "*Putois pied de biche*" and is identical with that used by M. Demachy for his oil prints. The quality of the hair is such that the most delicate detail can be reproduced, the deposit of pigment being very delicate and free from grain.

Each

Size A, diam. 1 inch	4/-
„ B, „ 1½	6 6
„ C, „ 2	23 3

Any other size obtained to order.

The "Mortimer" Brush.

This brush is made of long and fine hog hair, and will be found useful to those desiring broad effects. It is used by the Editor of *The Amateur Photographer*.

No. 1—¾ inch	...	...	5/-	No. 3—1½ inch	...	...	8/-
No. 2—1 inch	...	...	6/6	No. 4—1½ inch	...	...	10/-

Papers.

The "Platinotype" Process

The following qualities of Sensitized Papers are manufactured.

QUALITIES.	DESCRIPTION.
Black Japine, Sepia Japine ...	Thick Smooth Papers, with a surface something like Matt Opal. They are coated with collodion.
AA,—For the Cold-Bath Process ...	Smooth Paper. Medium thickness. More used of this quality than of any other.
KK.—For the Cold-Bath Process ...	Smooth thick Paper, fine surface; gives very bright prints; strongly recommended.
CC.—For the Cold-Bath Process ...	Rough-faced Paper. Thick and very strong. Suitable for large work, where a rough surface is preferred.
TT.—For the Cold-Bath Process ...	Rough thick Paper, gives greater contrast than C.C.
S.—For the Hot-Bath Process ...	Smooth Paper. To give rich SEPIA colour.
RS.—For the Hot-Bath Process ...	Rough surface Paper for Sepia, same substance as CC.
YY.—For the Cold-Bath Process...	Very thick smooth Paper.
ZZ.—For the Cold-Bath Process...	Very thick slightly rough Paper.

The qualities TT, YY and ZZ can also be coated for Sepia.

	BLACK.		SEPIA.	
	Black Japine AA, KK, CC, TT,	YY, ZZ.	KS, RS, TS, Sepia Japine.	YS, ZS.
	s. d.	s. d.	s. d.	s. d.
$\frac{1}{2}$ -plate, per tube of 24 pieces ...	1 8	1 10	2 0	2 3
5×4 " " " " ...	2 4	2 6	2 8	3 0
$6 \times 4\frac{1}{2}$ " " " " ...	3 0	3 3	3 4	3 8
$\frac{1}{2}$ -plate " " " " ...	3 6	3 10	4 0	4 5
$7\frac{1}{2} \times 5$ " " " " ...	4 4	4 9	5 0	5 6
$\frac{1}{2}$ -Plate " " " " ...	6 6	7 1	7 2	8 0
10×8 " " " " ...	4 8	5 2	5 3	5 10
12×10 " " " " ...	7 0	7 9	7 10	8 8
15×12 " " " " ...	10 4	11 3	11 9	12 11
1 Sheet, 26×20 ...	3 0	3 3	3 4	3 8
3 " " " " ...	8 0	8 9	9 0	10 0
6 " " " " ...	15 6	17 0	17 6	19 3
12 " " " " ...	30 0	33 0	34 0	37 6
24 " " " " ...	60 0	66 0	68 0	75 0

Postcards: Packet of 8, with Developing Salts, Acids and 2 Masks, $\frac{1}{6}$
Per tube of 1 dozen Cards only ... $\frac{1}{6}$

Calcium-Tubes, of Japanned Tin, for preserving and storing the Sensitized Paper.
Diameter. Available length inside. s. d. Diameter. Available length inside s. d.
4-in. ... 23-in. ... each 6 0 4-in. ... $10\frac{1}{2}$ -in. ... each 3 6
4-in. ... $6\frac{1}{2}$ -in. ... " 3 0 4-in. ... 12 $\frac{1}{2}$ -in. ... " 4 6

The above tubes are fitted with rubber bands, and with a suitable supply of prepared Calcic-chloride and asbestos.

Broad India-Rubber Bands, for the calcium tubes, to make them air-tight, 3d. each.

Prepared Calcic-chloride and asbestos—per oz., 3d.; per lb., 3s. Tins for storing up to 4 ozs., 2d. each.

Developing Salts, in $\frac{1}{2}$ -lb. packets, $\frac{1}{3}$ per $\frac{1}{2}$ -lb.

Sepia Salts, for developing Sepia Paper in $\frac{1}{2}$ -lb. packets, $\frac{1}{3}$ per $\frac{1}{2}$ -lb.

Tripod Stands.



Fig. 152.

“N. & G.’ Eiffel” Stand.

The strength of this tripod essentially depends on the mechanical principle adapted in its construction, the actual weight of material being reduced to a minimum. It is a remarkable combination of rigidity and lightness. Two-fold rigid legs, sliding adjustment, quickly set up. The best Tripod for small Cameras ; will stand any climate.

No. 2A.—For $\frac{3}{4}$ -plate Cameras.

Height, 4 ft. 6 in. Size, closed, $25 \times 1\frac{1}{2} \times 1\frac{3}{4}$ in.
Weight, $2\frac{1}{4}$ lbs.

No. 2B.—For 5×4 and $\frac{1}{2}$ -plate Cameras.

Height, 4 ft. 6 in. Size, closed, $35 \times 1\frac{1}{2} \times 2$ in.
Weight, 3 lbs.

PRICE, with “N. & G.” Screw and	
Waterproof Cover ...	No. 2A £1 8 6
Do. do.	No. 2B £1 13 6

No. 3.—For Large Cameras, Kinematographs, Lanterns, etc.

Height, 4 ft. $6\frac{1}{2}$ in. Size, closed, $30\frac{1}{2} \times 4 \times 2\frac{1}{2}$ in.
Weight, $6\frac{1}{4}$ lbs.

PRICE, with “N. & G.” Screw & Straps, £2 5 0

Three-Fold Stands.

For workers requiring a Tripod folding shorter than the “Eiffel,” and having adjustable legs. Both sizes are made of Ash, and have patent spring catches on the first joint. Three-fold Sliding Legs.

No. 1.—Height, 4 ft. 1 in. Size, closed,
 $19\frac{1}{4} \times 1\frac{3}{4} \times 1\frac{1}{2}$ in.
Weight, $1\frac{1}{2}$ lbs.

No. 2.—Height, 4 ft. 10 in. Size, closed,
 $26 \times 2\frac{1}{4} \times 2$ in.
Weight, 3 lbs.

PRICE, with Straps, No. 1 ... £0 15 6

„ „ „ No. 2 ... £1 1 0

Tripod Extension Piece.

When “N. & G.” or other long-extension Cameras are racked right out, this fitting holds one leg underneath the front, the other two remaining at the back, so that the baseboard is supported at both ends.

PRICE, including fitting to Camera ... £0 7 6

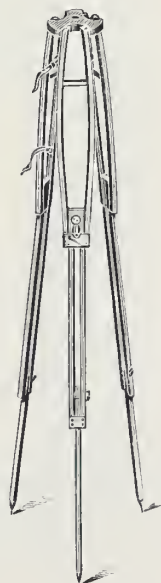


Fig. 153.

Tripod Stands.

The "N. & G." Tripod Screw.



Fig. 154.

A pin on the side stops the Screw when it has penetrated deep enough into the bush of the Camera. The fly-nut is then used to clamp the instrument down. A slight turn of the nut releases the Camera (for turning it round, etc.) without any risk of its falling off. Very neat and small for the pocket.

PRICE, in Oxidized Brass, with Two					
Bushes	...	...	...	...	1/6
Extra Bushes. each	...	...	...	...	3d.

Aluminium Tripod.

A full-sized Stand when set up, but collapsing into a very small space. It is made entirely of Aluminium, and, while light, is very rigid. The legs are telescopic, and can be adjusted for uneven ground. The tubes are round in section, and the head is made of a solid casting. Set-up or collapsed in a moment. The most portable Tripod made.



Fig. 155.



Fig. 156.

Height, 4 ft. 2 in. Size, closed, $14 \times 1\frac{1}{2}$ in.
Weight, 15 ozs.

PRICE, with Leather Case, Cycle					
Straps, and ordinary Screw	£1	6	0		
With Special "N. & G." Safety					
Screw ...	...	...	...	...	£1 10 0

Walking-Stick Aluminium Tripod.

Similar in general appearance to the above, but made with only one long sliding piece to each leg. The tubes are triangular in section and fit quite closely. When folded, and with their detachable ferrule and top in position, the Tripod resembles an ordinary walking-stick. The sliding legs give two different heights; the full extension being very great. The Screw is fixed.

Height, 5 ft. (or 4 ft. 2 in.) Size, closed, 33×1 ,
Weight, 1 lb.

PRICE, leather-covered	£1	12	6
------------------------	-----	-----	----	----	---

Tripod Stands.

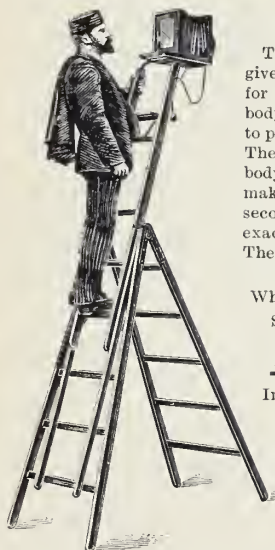


Fig. 149.

varying heights, and the Table adjusted to any angle. Made in Swedish Fir, with hard-wood treads, and varnished. Very strong, but light.

PRICES—

No.	Size closed.	Extends to	Price.
1	... 5 ft.	... 8 ft. 6 in.	... 45/-
2	... 6 ft.	... 10 ft. 6 in.	... 55/-
3	... 7 ft.	... 12 ft.	... 65/-
4	... 8 ft.	... 14 ft. 6 in.	... 75/-

"N. & G." Naturalist's Stand.

Specially designed to make it easy to photograph Natural History Subjects, Books, Pictures, and small curios of all kinds with "N. & G." Cameras without injury to the objects. The Camera is pointed vertically downwards, and the objects are held on a horizontal tray. They need not, therefore, be fixed, and can be reproduced without showing a support. Any kind of back-ground can be easily used; and by means of a glass tray (and a reflector underneath) transparent objects can also be taken, or opaque ones photographed without shadows.

For A, B and Special B "N. & G." Cameras,

$\frac{1}{4}$ -plate ... 42/-

Glass Tray, extra ... 7/6

Larger sizes in proportion.

"The Unipod."

The longer automatic exposures $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, etc., given by a good Hand Camera, are seldom used for fear of movement. It is easy to keep the body from moving from side to side, but difficult to prevent its swaying backwards and forwards. The "Unipod" provides both a rest for the body, and a support for the Camera, thus making it possible to take subjects requiring $\frac{1}{2}$ second exposure, or more. In appearance it is exactly like an ordinary cane walking-stick. The head conceals a fixed Tripod Screw.

PRICE - - 7/6

When ordering, please state length preferred.

S.R.R. UNIPOD, with adjustable top, 25/-

Photographic Step Ladder.

Intended for direct work with Large Cameras. Indispensable to Professionals whenever the ordinary Stand does not give sufficient height; for photographing in streets, for architectural work, etc. The Slide Ladder can be fixed at



Fig. 150.

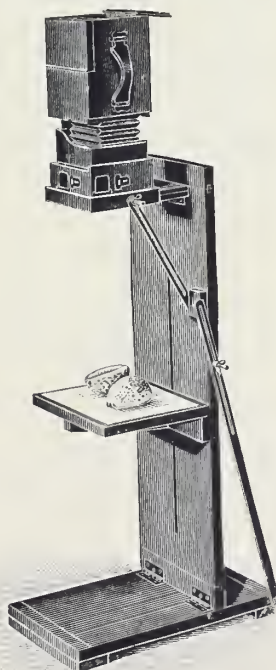


Fig. 151.



Fig. 148.

The Owen Patent Topometer.

The Perfect Range Finder.

"This Remarkable Instrument."—*The Broad Arrow*.

"The Ideal Range Finder. This beautiful instrument combines the 'desiderata' of lightness, portability, simplicity and accuracy."—*War Office Times and Naval Review*.

"That this clever invention will meet with the success it undoubtedly deserves, would appear a foregone conclusion."—*The Army and Navy Chronicle*.

Some Advantages and Uses of the Topometer.

MILITARY.

The Topometer can be used for taking ranges and dimensions of any distant object with great exactness by one man.

The Topometer registers the ratio of distance to base, and makes the base at the point observed.

The Topometer will measure the distance of an object without the observer having to move in a lateral direction.

The Topometer may be used as a Depression Range Finder, without the necessity for a pedestal or levelling.

The Topometer during attack, when, owing to enemy's fire, only a momentary observation is possible, will give the range without the necessity for leaving cover.

NAVAL.

The Topometer may be used as a Range Finder from a fighting top.

The Topometer may be used from sea level when attacking permanent land fortifications.

The Topometer is the best instrument for Station Keeping and Coast Navigation.

The Topometer is unrivalled for rapid sextant work when it is advantageous to avoid the delay of consulting mathematical tables.

SURVEYING.

The Topometer used with a Plane Table is the best instrument for Rapid and Accurate Survey Work.

The Topometer does not need a Definite Base, Mathematical Tables or Difficult Calculation.

No. 1 Topometer. Weight, in case complete, 16 ounces. Price,									
Net Cash	...	...	...	...	...	...	...	...	£5 5 0
No. 2 Topometer, for distant ranges. Weight, complete,									
40 ounces. Price, Net Cash	...	...	...	...	...	...	...	...	£6 6 0

"N. & G." Developing, Printing and Enlarging Department.

Owing to the very extensive increase in the amount of work placed in our hands by our many customers, both amateur and also the more advanced workers, we have been compelled to considerably enlarge this department with the introduction of the most up-to-date methods to facilitate prompt execution of all orders.

This department is under the supervision of an expert, who is both thorough and efficient in the handling of Printing and Developing, and customers entrusting work to our care can rely upon the most careful attention and obtaining the very Best Possible Results.

We are always ready to give practical advice regarding the most suitable process to attain the best result, and this also with regard to Mounting and Framing.

It may be pointed out that assistance in the choice of mounting and framing of pictures is distinctly an important one. It is fully recognised that the final selection of Suitable Printing Medium and Framing which will harmonize to make the resultant effect the best obtainable, is a difficult matter, and the value of the advice of our expert with his wide experience should be appreciated.

Printing in P.O.P., Bromide, Gaslight and Collodio-Chloride Paper, and Platinotype Paper.

Size.	P.O.P. Per Doz.	Bromide, Gas- light, and Collodio-Chloride Per Doz.	Platinotype. Per Doz.	Mounting on Best Plate Sunk Mounts and Art Paper.
	s. d.	s. d.	s. d.	s. d.
$3\frac{1}{2} \times 2\frac{1}{2}$	2 0	3 0	4 0	1 6
$4\frac{1}{4} \times 3\frac{1}{4}$	2 6	4 0	5 0	2 0
5×4	3 0	5 0	6 0	2 6
$6\frac{1}{2} \times 4\frac{3}{4}$	4 6	6 0	7 6	4 6
$8\frac{1}{2} \times 6\frac{1}{2}$	8 0	9 0	12 0	7 6
10×8	10 0	12 0	18 0	10 6
12×10	16 0	18 0	25 0	12 0

Bromide Enlargements.

Size.	Enlargements Unmounted.	Sepia Toned Unmounted.	Rough Mounted and Spotted. Extra.	Mounted on Best Plate Sunk or Art Mounts. Extra.
	s. d.	s. d.	s. d.	s. d.
6½ × 4¾	1 0	1 4	0 3	0 9
8½ × 6½	1 6	2 0	0 5	1 0
10 × 8	2 0	2 8	0 6	1 0
12 × 7½	2 6	3 4	0 6	1 3
12 × 10	2 6	3 4	0 7	1 3
15 × 12	3 0	4 0	0 9	1 8
17 × 10½	3 0	4 0	1 0	2 0
18 × 15	4 0	5 4	1 0	2 3
20 × 16	4 3	5 6	1 3	2 6
23 × 17	5 0	6 8	1 6	4 6
24 × 18	6 6	8 8	1 6	5 0
24 × 20	7 0	9 4	1 6	5 0

Developing Exposed Plates or Films.

These prices are for **Best Work**, and Plates are developed separately, giving **Best Possible Results** from each exposure.

3½ × 2½ Plates	...	s. d. 3 0 doz.	8½ × 6½ Plates	...	s. d. 8 0 doz.
4¼ × 3¼ "	...	4 0 "	10 × 8 "	...	10 0 "
5 × 4 "	...	4 6 "	12 × 10 "	...	14 0 "
6½ × 4¾ "	...	6 0 "	15 × 12 "	...	20 0 "
7½ × 5 "	...	7 0 "			

Rollable Films.

Size of Negatives in Inches.		Developing.	
		Six Exposures.	One dozen Exposures.
2¼ × 2¼	...	0 9	1 0
3¼ × 2¼	...	1 0	2 0
4¼ × 2½	...	1 6	3 0
5 × 4	...	1 9	3 6
6½ × 4¾	...	2 0	4 0

Toning and Fixing Customers' own Prints.

C.D.V., Quarter Plate	s. d.	10 × 8 ...	s. d.
or 5 × 4 ...	1 3 doz.	12 × 10 ...	0 5 each
Cabinet or Half Plate	1 6 "	15 × 12 ...	0 8 "
7½ × 5 or Whole Plate	3 0 "		0 10 "

Carbon Enlargements, on full range of **Autotype Company's Tissue.**

Size.	First Enlargement	Extra Copies.	Rough Mounted.	Mounted on Art Plate Sunk Mounts with tints.
	s. d.	s. d.	s. d.	s. d.
Cabinet and under	5 0	0 7	0 3	0 6
8½ × 6½	6 0	0 9	0 4	0 8
10 × 8	6 6	0 10	0 6	1 2
12 × 10	7 0	1 3	0 6	1 6
13 × 8	7 0	1 3	0 6	1 6
15 × 12	10 0	1 9	0 9	1 8
16 × 13	11 6	2 0	0 9	1 8
18 × 15	13 6	2 6	1 0	1 9
20 × 16	14 6	3 6	1 0	3 3
24 × 18	16 0	4 0	1 0	3 6

Our Speciality.

Sepia Toned, Carbon Bromide Enlargements, mounted on Art Mounts.

Lantern Slides.

Every care taken to obtain the best results from Negatives. Warm tones, if desired. Carefully masked and bound, 1/6 each. 15/- per dozen. Lantern Slides from prints or photographs, 3/- each.

Autochrome Plates.

Very carefully developed to obtain best results possible.

Size.	Developing only.	Developing, Masking and Binding under Cover Glass.
4¼ × 3¼	1/6	2/6
5 × 4	2/-	3/-
6½ × 4¾	2/6	3/9

Books.

Telephotography, by Thomas R. Dallmeyer	15/-
Three-Colour Photography, by Von Hübl	7/6
The Technics of the Hand Camera, by W. B. Coventry	5/-
Instruction in Photography, by Sir William De W. Abney	7/6
The Optics of Photography, by I. Trail Taylor	3/6
The Photographic Instructor, by T. J. Pigg	1/-
Watkin's Manual, by Alfred J. Watkins	1/-
The A B C of Photography, by E. J. Wall	1/-
Bromide Enlarging, by S. H. Fry	0/6
A Treatise on Photography, by Sir W. De W. Abney	5/-
Instantaneous Photography, by Sir W. De W. Abney	1/-
Photographic Lenses, by Conrad Beck and Herbert Andrews	1/-
Animals in Motion	20/-
Barnet Book of Photography	1/6
Wild Life at Home, by R. Kearton, F.Z.S.	6/-
The Pleasant Art of Photography made Easy by Camera	1/-
Practical Photographic Annual	1/6
British Journal Almanac Paper	1/-, Cloth 1/6
Picture Making by Photography, by H. P. Robinson	2/6
A First Book of the Lens, by C. Welborne Piper	2/6
Dictionary of Photography, by E. J. Wall	7/6
The Photographic Reference Book, by J. McIntosh	1/6
Photography for Naturalists, by Douglas English	5/-
Elementary Photography, by Ernest Marriage	3/6
Photographic Failures, by "Scrutator"	1/-
Telephoto Work, by G. H. Deller	1/-
Advanced Hand Camera Work, by Walter Kilbey	1/-
The Figures, Facts, and Formulæ of Photography, by H. Snowdon Ward	1/-
Cyclopædic Photography, by Edward L. Wilson	12/6
Photography in Winter	0/6
Photograms of the Year	2/-, 3/-
Finishing the Negative, by George E. Brown	2/6
The Lens, by Thomas Bolas and George E. Brown	2/6
Early Work in Photography, by W. Ethelberte Henry	1/-

THE "AMATEUR PHOTOGRAPHER" SERIES, 1/- EACH.

THE PHOTO MINIATURE SERIES, 6d. EACH.

"PHOTOGRAPHY" BOOKSHELF SERIES, Nos. 7, 8 and 20,

2/6 EACH; Nos. 1 to 6 and 9 to 19, 1/- EACH.

Sundries.

ALUMINIUM PARTS.

£ s. d.

Extra cost of making the Index Plate and Finders in aluminium to further reduce weight. To any Camera ... 0 15 0

ALUMINIUM BINDING.

The metal is let into the woodwork, below the leather, imparting additional strength without increasing the weight

Pattern B, or Special B	...	...	...	...	$\frac{1}{2}$ -pl.	£2 0 0
"	"	"	"	"	5×4	2 10 0

(Other Patterns in proportion).

AIR-TIGHT METAL CASES.

Very light but strongly made of double thickness iron, enamelled black. Closing hermetically, with rubber joints, iron clamp and lock. Indispensable for preserving Leather and Wood in hot and damp climates.

For B, Special B, or H.S. Cameras and Leather Cases:—

$\frac{1}{2}$ -plate, £1 10; 5×4 , £1 15; $\frac{1}{2}$ -plate, £2 5 0

LEATHER CASES AND WATERPROOF COVERS

For the various "N. & G." Cameras are listed under their own headings given in the Camera Section.

					s.	d.
Leather Cases for "N. & G." Focussing Glass...	...	...	...	...	1	6
" " Zeiss Focussing Glass	...	...	...	...	1	6
" " Plano-Concave Finders	...	...	...	...	1	3
" " " (Large)	...	...	...	...	1	9
" " Aluminium Tripod	...	...	...	...	6	6
" " Telephoto Attachments	...	...	...	" N. & G."	5	6
" " " "	...	...	...	Reflex	6	6

Strong Velvet-Lined Leather Cases, with Shoulder Strap and Lock, to take the "N. & G." Changing Boxes.

				$4\frac{1}{2} \times 3\frac{1}{4}$ in.	5×4 in. and 9×12 c.m.	$6\frac{1}{2} \times 4\frac{1}{2}$ in. and $6\frac{1}{2} \times 4\frac{3}{4}$ in.
				s. d.	s. d.	s. d.
Pattern A	...	...	...	10 0	12 0	15 0
Pattern B	...	...	...	12 0	15 0	17 6

CYCLE CARRIER FOR CARRYING CAMERA ... 12 6

LENS CAPS ... $\frac{1}{4}$ -plate 1/-, $\frac{1}{2}$ -plate 1 3

METAL DISH COVERS ... $\frac{1}{4}$ -plate 6d., $\frac{1}{2}$ -plate 0 9

CRUSHMETER (Patent).

This unique little instrument will prove invaluable to every photographer for the easy crushing and solution of compressed tablets, large crystals and any chemicals difficult to dissolve.

As will be seen from the illustration it consists of a specially designed glass measure graduated to 4 ozs., the inside of which is curved at the bottom to fit a glass pestle or crusher.

Price 2/- each.



Fig. 157.

THE IMPROVED "ECLIPSE" CHANGING BAG.



Fig. 159.
Method of Using the "Eclipse"
Changing Bag.

In order to obviate *all* the drawbacks usually connected with the changing of plates, we have further improved this useful article. It consists of a double bag of strong cloth, black outside and lined with red. By means of our Improved "Eclipse" Changing Bag, plates may be changed without a dark-room, and in any light. Therefore, a worker using "N. & G." Changing-Boxes, Re-fill Boxes, and this Changing Bag is independent of everything. This complete system has entirely done away with the troubles of the travelling photographer.

The Improved "Eclipse" Changing Bag will pack anywhere, and weighs but 1 lb.

						s.	d.
$\frac{1}{4}$ -plate—Price	10/6	each ; post free	...	...	...	10	9
$\frac{1}{2}$ -plate—	12/6	,, ,,	...	...	...	12	9

THE "CLIMAX" CHANGING TENT.



Fig. 152.

The Climax Tent will be found useful to all who practise photography, and especially to those who expose the larger size plates or films. The object in view in designing this tent has been to combine efficiency with extreme portability.

The material used is specially selected and of three-fold thickness. The polished mahogany stand is very light and is furnished with brass fittings of the best quality.

MEASUREMENTS.

No. 1 size.—				£	s.	d.
Erected, 20 × 20 × 20.	Closed, 20 × 3 × 3.	Weight, 3 lbs.		1	1	0
No. 2 size.—						
Erected, 25 × 23 × 23.	Closed, 25 × 3 × 3.	Weight, 4 lbs.		1	5	0

FILM DEVELOPING DISH.

QUITE NEW.

This article supplies a long-felt want in film development. As will be seen from illustration, handling the film is entirely dispensed with. In hot weather particularly this device has only to be tried to be appreciated.

PRICES:

3½-in.	...	...	2/-
4½-in.	...	...	3/-
5½-in.	...	...	4/-

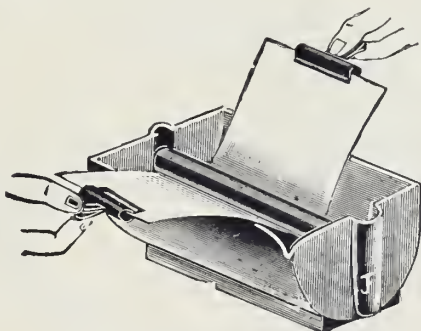


Fig. 160.

DRY PLATE DUSTERS.



Fig. 161

Wood Handle, with Red Silk Plush.

¼-pl.	...	3½ ins.	...	1/- each
½-pl.	...	5	,,	1/4 ,,
¾-pl.	...	7	,,	1/9 ,,

Ditto with Leather Handle and Silk Plush.

½-pl.	...	4½	,,	1/6 each
¾-pl.	...	3	,,	1/3 ,,

PATENT DRYING BOX.

Patented and Registered.

No Specks or Dust. Gauze Surround.

Folds flat and contents pack in box as shown closed.

Beautifully Enamelled.

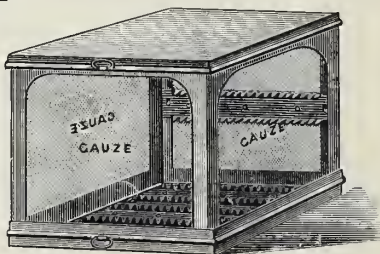


Fig. 186.



Fig. 187.

No. 1	For Lantern Plates and $\frac{1}{4}$ -plates	...	...	...	24 Grooves.
2	5 × 4 and $\frac{1}{2}$ -plates	...	...	...	8/6 each
3	$\frac{1}{2}$ and $\frac{1}{4}$ -plates	...	...	...	11/6 "
4	$\frac{1}{2}$, $\frac{1}{4}$, 10 × 8, 12 × 10, 15 × 12	...	...	...	16/0 "
					21/0 "

DRAINING RACKS.

"N. & G." Folding Mahogany Rack.

Well-made, Strong and durable.

To hold 12 plates.

$\frac{1}{4}$ -plate to $\frac{1}{2}$ -plate	...	1/0
$\frac{1}{2}$ -plate to 18 × 8	...	1/6
10 × 8-plate to 15 × 12	...	2/0



Fig. 167B.

DOUBLE DARK SLIDES.

For "N. & G." Universal Cameras, interchangeable with the Changing Boxes. For home use, and in all cases where only a few plates or films are required.

			$\frac{1}{4}$ -plate.	5 × 4
One Slide and Adapter	...	...	17/6	21/0
Set of 3 Slides and Adapter	...	...	45/0	55/0

SINGLE DARK SLIDES.

For Half-plate, Double-quarter, and Stereoscopic Cameras, which will not take the Double Slides.

$6\frac{1}{2} \times 4\frac{1}{4}$ and $6\frac{1}{2} \times 4\frac{3}{4}$... One Slide, 18/0; Set of Three, 50/0.

IMPROVED DARK-ROOM PIN.



Fig. 162.

All Metal. Points cannot come out.

1 dozen ... Price, 6d.

EXPOSURE RECORD AND DIARY.

Burroughs Wellcome & Co.'s 1/0

FOCUSSING SCREENS.

Ground Glass for "N. & G." Cameras.

$4\frac{1}{4} \times 3\frac{1}{4}$	...	...	5/6	$6\frac{1}{2} \times 4\frac{3}{4}$	...	...	7/6
$6\frac{1}{2} \times 4\frac{1}{4}$	...	...	7/6	5×4	...	...	6/6
9×12 c/m	...	...	6/6				

For $\frac{1}{4}$ to $\frac{1}{2}$ Enlarger $8\frac{1}{2} \times 6\frac{1}{2}$ interchangeable with Dark Slide, 8/6.

FINDER FOR MEASURING DISTANCES.

The "N. & G." Telemeter.

This little Instrument is designed to enable Hand Camera Workers to measure the distance of any person or object with accuracy, and without attracting attention.

Price, 1/6; post free, 1/7.

Leather Pocket Case, 6d.



Fig. 163.

FOCUSSING GLASSES.



Fig. 164.

Indispensable for focussing accurately on the ground glass; for examining negatives etc.

Small achromatic Eyepieces.	Brass	...	5/6
"	Nickelled	...	6/6
Long form, folding Glass. (Projects through the back of an "N. and G." Camera).	Brass	...	12/6
Zeiss Aplanatic Glass. (Gives a perfectly flat and sharply defined image).	Aluminium	...	26/0
Pocket Cases	...	...	1/6

FOCUSSING CLOTHS.

"N. & G." Waterproof Focussing Cloth, specially recommended. Light and flexible waterproof cloth, which does not blister or crack. In case of rain, they are specially useful as a protection to the camera when there is not sufficient time to pack away.

30×30	each	1/6	36×30	each	2/6	54×54	each	5/6
30×30	"	2/0	60×36	"	3/6			

DISTANCE MEASURING FINDER.



Fig. 165.

instrument throws a very bright image on a fine ground-glass at the back, and this is viewed by means of a fixed, but adjustable, eye-piece.

Price, complete with Leather Pocket Case, 25/0.

"FLASHMETER."

A combined Flashlamp and Magnesium Ribbon Holder. Safe. Reliable. Always ready.

This useful and handy apparatus is made of enamelled tin and contains a $\frac{1}{4}$ -oz. coil (about 15 yards) of Magnesium Ribbon.

Cheap. Safe. Thoroughly Effective.

Price 6d. each.

Full Directions are supplied with each Flashmeter.



Fig. 181.

THE "FORCE" FLASH LAMP.

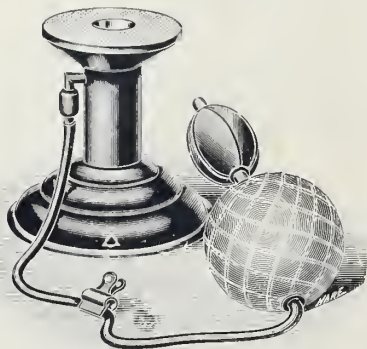


Fig. 184.

The Best Flash Lamp on the Market.

Gives a Powder Flash 3-ft. High.

Nickel Plated. Best Finish.

Large Size ... 10/6 each.
Small Size ... 6/0 "

GRIFFITH'S BROMIDE GAS PRINTER.

$\frac{1}{4}$ to $\frac{1}{2}$ -plate, adjustable to any distance from light ... 3/0 each.

"N. & G." ISOCHROMATIC SCREENS.

For correctly rendering the different tints of a Landscape, and for photographing coloured objects of all kinds. They can be placed on the lens like a cap.

Best quality "Ray Filters": Exposure, $\times 2$, or $\times 4$...	$\frac{1}{4}$ -plate. 8/6	5×4 10/6
Holders	2/6	2/6
Second quality Screens, in Brass Mount	5/6	6/6
Pocket Cases	2/0	2/6

SPECIAL JARS for STORING HYPOSULPHITE SODA.

With Stone Screw on Lids, to hold 7 lbs.	...	...	...	2/6
" " " " 14 lbs.	...	...	...	3/6

Lantern Sundries.

COVER GLASSES.

Specially selected, extra thin sheet glass ... 8d. per doz; 7/6 per gross.

THE "N. & G." RECTANGULAR MASK.

(Black one side, and white the other side). Price 1/- per box of 100 masks; all one shape or assorted.

BINDING STRIPS.

Of great strength and double gummed, 14in. long, and the required width Price 1/- per box of 150 strips.

ADHESIVE "SPOT" LABELS.

White or Black. 6d. per box of 1000.

TRANSPARENT DEVELOPING DISHES for LANTERN
SLIDES.

Xylonite 8d. each. Glass 6d. each.

MASK PAPER.

Purple-black, glazed finish. The very finest Mask Paper manufactured; thick and absolutely free from pinholes.

1 sheet demy (22½ × 17½)	...	...	...	...	...	2d.
6 sheets „ „	...	...	...	...	...	9d.

SLIDE BINDING CLAMP.

This ingenious appliance, emanating from so well-known a worker as Dr. HALL EDWARDS, will recommend itself for simplicity and practicability. *Well-made.* Oxidised, with brass fittings, on mahogany stand, 5/6 each.

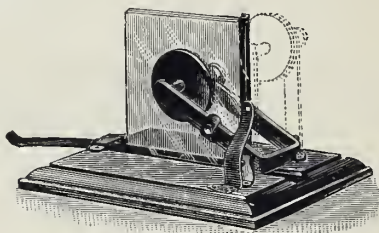


Fig. 167.

The "Eclipse" Lantern Slide Carrier	...	...	...	...	10/6
"N. & G." Lantern Slide Carrier	...	...	...	...	7/6
The "Simplex" Lantern Slide Carrier with Lifter	...	...	...	...	1/9
"Hardazon" specially hardened Limes, per tin of 12, $1\frac{1}{2} \times 1$ in.	...	...	...	...	2/6
Lever Key (Primus) for Oxygen Bottles	...	...	...	...	2/6

"N. & G." LANTERN SLIDE PRINTING FRAME.

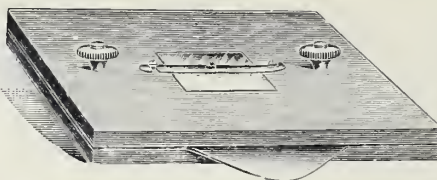


Fig. 168.

For Printing Slides by contact.

Specially constructed and manufactured by "N. & G."

Price ... 7/6 each.

IMPROVED LANTERN SLIDE BOX.

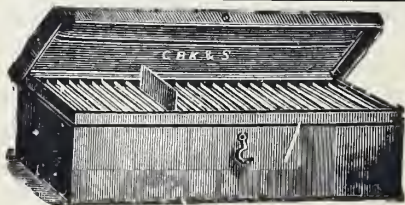


Fig. 169.

With cardboard divisions between each, rubber tubing to prevent breakage, and ventilation holes. Weighs 20 ozs. Measures $4 \times 3\frac{3}{4} \times 12\frac{1}{2}$ ins. Ventilation for cooling slides after exhibition.

To hold	18	25	50	60	100
	1/9	2/3	3/4	4/0	6/3 each.

LEVELS.

"N. & G." Level, Best Quality	...	...	...	3/6
"Nydia" T-level	...	...	...	4/6
Circular Level	...	...	...	1/0

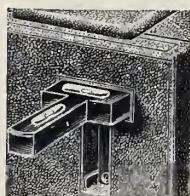


Fig. 170.

LABELS.

New Artistic Indestructible Labels ... per box of 36. Price ... 6d.

"N. & G." LEVELLING TRIPOD TOP.

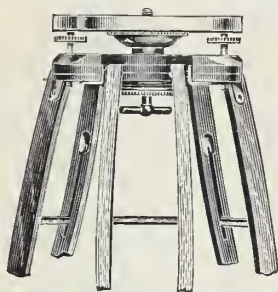


Fig. 171.

For surveying Cameras, Panoramic Pictures, and all work requiring a perfectly horizontal instrument. The Tripod can be roughly set to suit the ground, and the Camera then accurately levelled by means of the three screws. Made of Aluminium (wearing surfaces of brass). No loose pieces. Can be rigidly clamped in the horizontal position. (Made to order only).

Size suitable for a No. 2 Three-fold Stand.

Price... .. 40/0

LIGHT-TIGHT BOXES FOR DRY PLATES.

Fitted with Paper-covered Metallic Groovings, occupy but little space, and are useful for storing Negatives.

Width of Box with 7 Grooves, for 12 plates (10 plates packed back to back in grooves) $1\frac{1}{2}$ in. inside measure.

Width of Box with 12 grooves, for 12 plates (packed singly in grooves), $2\frac{1}{4}$ in. inside measure.

Size of Plate.	Price per doz.
$4\frac{1}{4} \times 3\frac{1}{4}$	3/9
5×4	4/3
$6\frac{1}{2} \times 4\frac{3}{4}$	5/0

Size of Plate	Price per doz.	If covered entirely with Book Cloth, additional per doz.
$4\frac{1}{4} \times 3\frac{1}{4}$	4/0	6d.
5×4	4/6	6d.
$6\frac{1}{2} \times 4\frac{3}{4}$	5/6	8d.

MAHOGANY LIGHT-TIGHT BOXES.

$\frac{1}{2}$ -Plate (12 grooves), 4/6; $\frac{1}{2}$ -Plate, 5/3

HIGGINS' PHOTO MOUNTER.

This is an adhesive, specially prepared for mounting Photographs, Aristotypes, Scrap Pictures, Engravings, &c.

Prices in White Glass, Metal Capped Jars:

$2\frac{1}{2}$ -oz., 6d.; 6-oz., 1/0; 14-oz., 2/0

MIRRORS.

L. F. Reflex— $\frac{1}{4}$ -plate ..	7/6	S. R. Reflex— $\frac{1}{4}$ -plate ...	12/6
5×4	8/6	5×4	15/0
$\frac{1}{2}$ -plate	10/0	$\frac{1}{2}$ -plate	17/6

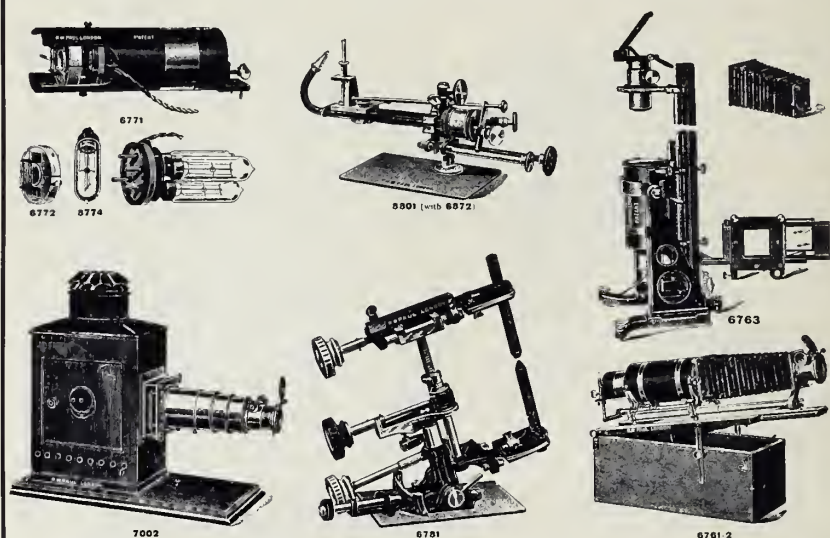


Fig. 190.

TYPES OF OPTICAL PROJECTION APPARATUS.

Fig. 6761—Lecturer's Portable Lantern	...	...	...	80/0
„ 6762—Mahogany Cabinet and Stand for ditto	...	...	...	20/0
„ 6771—Nernst-Paul Projector Lamp, 3 amperes	...	...	...	40/0
„ 6763—Vertical and Horizontal Science Lantern for ditto	...	...	...	150/0
„ 6801—Lock's Patent High-Power Jet	...	...	...	45/0
„ 6972—Universal Adjustable Stand for Jet or Arc Lamp	...	...	...	20/0
„ 6781—Heavy Optical Arc Lamp to 50 amperes	...	...	...	72/6
„ 7002—“ Institute ” Optical Lantern, from	...	...	...	105/0

RUSSIA LEATHER BELLOWS.

Strongly recommended for Tropical Climates, to protect Cameras from insects. Extra costs:—

Pattern B, $\frac{1}{4}$ -plate, **20/0**; 5×4 , **25/0**. Special B, $\frac{1}{4}$ -plate, 2-foci, **20/0**; 3-foci, **25/0**. 5×4 , 2-foci, **25/0**; 3-foci, **30/0**.

(Other Patterns in proportion).

RUBBER GLOVES.

In regular Glove Sizes per pair **5/6**

RUBBER BALLS AND TUBING.

Large (pear shaped) Rubber Balls	...	...	...	29 each.
Small Balls and Tubing	...	...	...	20 „
Rubber Tubing	...	...	...	06 per ft.

THE IMPROVED SECTIONAL PRINT WASHER.

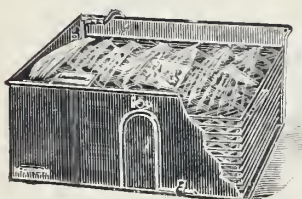


Fig. 182.

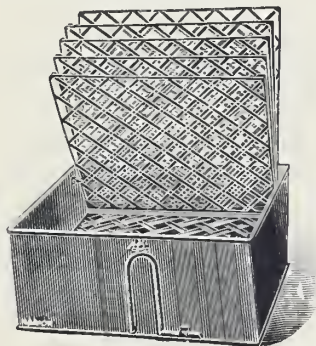


Fig. 183.

A most efficient Washer for P.O.P., bromide paper, collodion paper, and all soft-surfaced prints. No damage to surface of prints. No tearing of prints. Thorough washing.

PRICES.

No. 1, with 6 trays, 9×7 ins., holding 24 $\frac{1}{4}$ -plate or 12 $\frac{1}{2}$ -plate prints	8/6
No. 2, with 6 trays, 13×11 ins., holding 48 $\frac{1}{4}$ -plate or 24 $\frac{1}{2}$ -plate prints	14/6
No. 3A, with 6 trays, 16×13 ins.	18/0

RETOUCHING DESK.

Retouching Desk of a very superior make and finish. The woodwork is of selected polished mahogany, and the metal of brass.

There is also provided a Top Shade, Opal Reflector adjustable to various angles, a Drawer for carrying pencils, &c., and Reversible Carriers for various size plates.

To take from $\frac{1}{4}$ -plate to $\frac{1}{4}$ -plate	...	...	...	17/6
„ „ „ 12 × 10	...	...	...	35/0

Carriers for Intermediate sizes can be supplied at extra cost.

THE "JAY NAY" ROLLER SQUEEGEE.

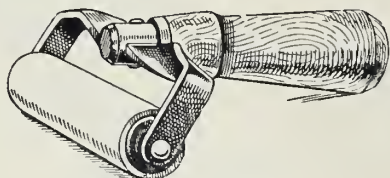


Fig. 173.

(Improved Pattern).

Size	4in.	5in.	6in.	8in.	10in.	12in.
Price	0/11	1/0	1/2	1/8	2/0	2/6

ROLLER SQUEEGEES.

Superior Solid Red Rubber.

3in.	4in.	5in.	6in.	7in.	8in.	9in.
1/3	1/8	2/0	2/6	3/4	3/9	4/2

FLAT SQUEEGEES.

6 in.	8 in.	10 in.	12 in.
0/9	1/1	1/5	2/6

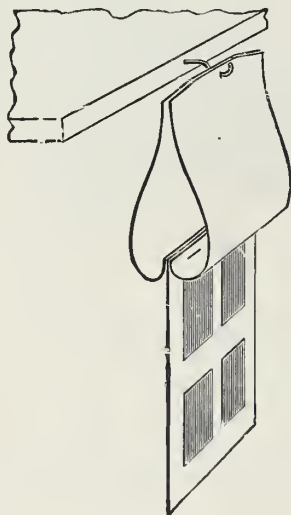


Fig. 174.

SANDERSON

Patent "Perfect Polish"

SQUEEGEE PAD.

Size and Price. Number of Prints Pad will take.

No. 1 for Glossy Prints	1/6	Two $\frac{1}{2}$ -plate ($6\frac{1}{2} \times 4\frac{1}{2}$), or Two 5×4 , or Four $\frac{1}{4}$ -plate ($4\frac{1}{2} \times 3\frac{1}{2}$), or Eight smaller size.
No. 10 for Matt Prints	1/6	
No. 2 for Glossy Prints	2/6	Two 10×8 , or Two $\frac{1}{2}$ -plate ($8\frac{1}{2} \times 6\frac{1}{2}$), or Four $\frac{1}{2}$ -plate ($6\frac{1}{2} \times 4\frac{1}{2}$), or Eight 5×4 , or $\frac{1}{4}$ -plate ($4\frac{1}{2} \times 3\frac{1}{2}$).
No. 20 for Matt Prints	2/6	

ENAMELLED IRON PLATES.

Hand Polished for Glazing Prints.

The Plates give superb results with all P.O.P.

PRICES.

$5\frac{1}{4} \times 4\frac{1}{4}$	...	...	6d.
$7\frac{1}{2} \times 5$	...	...	8d.
9×7	...	...	1/0
11×9	...	...	1/6
13×11	...	...	2/3
16×14	...	...	3/6

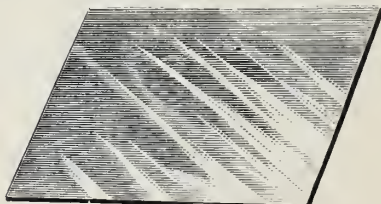


Fig. 175

COMPRESSED PULP SLABS.

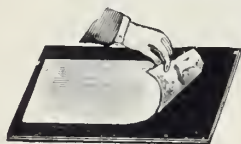


Fig. 176.

For Glazing P.O.P Prints.

Give a brilliant glass-like finish to the prints. The surface is extremely hard and not scratched by the squeegee, and the slabs are unbreakable and most durable.

Very Highly Enamelled and Polished for glazing Prints.

PRICES.

8 x 5 ...	1/0	14 x 12 ...	3/0	21 x 17 ...	5/3
10 x 8 ...	1/8	16 x 14 ...	3/4	25 x 19 ...	7/6
12 x 10 ...	2/3	17 x 13 ...	3/9	26 x 22 ...	8/9

STRAPS FOR CARRYING "N. & G." CAMERAS.

Best Hand-sewn Leather Straps, $\frac{1}{2}$ -in. wide, with Brass Swivels (as supplied with $\frac{1}{4}$ -plate Instruments) 2/6

Broad Canvas-Webbing Sling, 2-in. wide, with hand-sewn Leather Ends, and Steel Swivels (as supplied with 5 x 4 and larger Instruments) 5/6

Extra Long Sling 6/6

Set of Broad Canvas-Webbing Knapsack Straps, to attach to the Leather Case of the Camera. Complete with Fittings ... 7/6

STEREOSCOPES FOR TRANSPARENCIES.

Price 42/0 Cheaper 15/6

NEW SWING TAP.

Beautifully Plated. Strong and Efficient.

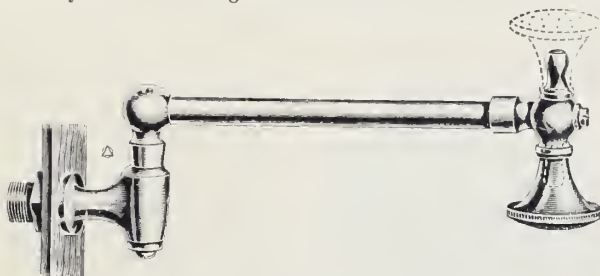


Fig. 177.

The only Swing Tap that can be used for spray or bottle filling and connecting to Washing Tanks at one and the same time.

Price complete 7/6.

"N. & G." SHUTTER TESTING MACHINE.

Price £3 15 0.

CHEMICAL THERMOMETERS.

For Testing the Temperature of Chemicals, etc. 2/0 each.



Fig. 189.

THE WATKINS TIME THERMOMETER.

Indicates time to develop against height of mercury without any calculation or adjustment of any kind. Differences between developing speed of different plates (indicated by code letters in speed card) is allowed for by varying the dilution of developer.

One scale indicates time for DISH DEVELOPMENT, and the other scale for TANK DEVELOPMENT.

Price 2/6 complete, with instructions; by post 2/7. Special pattern for AUTOCHROMES ($2\frac{1}{2}$ minutes at 60°) at same price.

THE DALLMEYER TELEPHOTO CALCULATOR

Is suitable for use with all telephoto attachments, and with complete telephoto lenses, such as the "Adon."

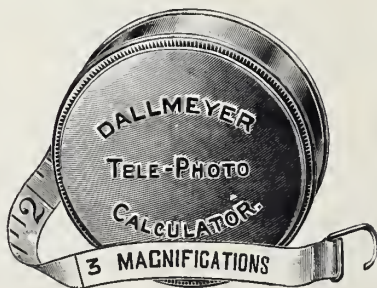


Fig. 180.

Any desired magnification or focal length can be immediately obtained without calculation.

PRICE in brass, marked for one Lens, suitable for all Camera extensions up to 3 feet 2/9
Inland postage 0/2
Additional Scales on one Calculator, each ... 1/0
Morocco Pocket Case ... 2/6



Fig. 166.

JAPANNED OUTSIDE & LETTERED LEAD-LINED "FIXING" TANK.

To take 19 $\frac{1}{4}$ -plates and 9 $\frac{1}{2}$ -plates	...	each	2/3
" $\frac{1}{4}$ -plates, 12 grooves	...	"	2/3
" 5 x 4	" "	...	2/6
" $\frac{1}{2}$ -plates	" "	...	3/6

SET OF THREE TANKS AND RACKS.

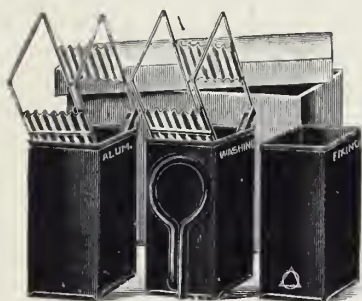


Fig. 185.

Each Tank lettered.
Each Set packed in Plain Card Box.
Made in Three Qualities.
No. 1 Quality. Washing Tank with Zinc Rack, Lead-Lined Alum Tank, Lead-Lined Fixing Tank.

PRICES:

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INDEX.

	PAGE.
Introduction	7-11
Choice of Apparatus	15-18
In Praise of "N & G"	11-14
What Users of "N & G" Say	12-14
Terms of Business	5
Telegraphic Code	4

ACTINOMETERS	109-110
Adapter for Dark Slides	59, 152
Adapter for Film Pack—"N & G"	112
Adapter for Lenses	94
Adhesive Dry Mounting Machine	117
"Adon" Telephoto Lens	39-90
Air-tight Metal Cases	149
Albums	97
Aluminium Binding	149
Parts	149
Antinous Release (see different Camera Lists).	
Arc Lamps	115
Autochrome Sundries	124

BAGS, Changing	150
Balls and Tubing	159
Bellows (Russia Leather) ..	158
Binocular Glasses	95-96
Books	148
Bottles	99
Boxes, Changing for Plates ..	62-63-64
Drying	152
Lantern Slides	156
Negative	122
Bromide Printer	113, 155
Brushes	98
Burroughs, Wellcome & Co. Exposure and Diary	153
Business Terms	5

CAMERAS AND ACCESSORIES:—	
"Sybil"	27, 39
"Sibyl" Accessories	38, 39
"Nydia"	41, 42
"N & G" Square Reflector Reflex	43-48
"N & G" Long Focus	49, 50
"N & G" Universal "De Luxe"	51-53
"N & G" Universal	54-59
"N & G" High Speed Pattern	60
"N & G" Trellis	61
"N & G" Stereoscopic ..	62-66
Zeiss Telephoto	71
Minimum "Palmos" ..	71
Zeiss "Palmos" Stereoscopic	71
"Blocknote"	68-69
"Blocknote" Stereoscopic ..	68
Goerz Anschutz	70
Ross "Panros"	65
Micro-Photographic	21-22
Reducing (Lantern Slide) ..	75
Cinematograph	19

CAMERAS, FIELD:—	
"Arctos"	67
"Ural"	65
Convertible "Ural"	66
Enlarging	74
Caps for Lenses	149
Carriers for Cycle	149
Changing Bag	150
Boxes	62, 63, 64
Tents	151

CHEMICALS:—	
General List	104
"N & G" Developer	104
Burroughs Wellcome's	
Tabloids	100-101
Scaloids	102-103
Clock for Dark Room	105
Cloths, Focussing	153
Code, Telegraphic	4
Cinematograph Apparatus ..	19

COLOUR PHOTOGRAPHY:	
Autochromes	124
"Thames" Colour Plate ..	123
Compressed Pulp Slabs	160
Condensers	105
Covers, Dish	149
Waterproof	149
Crushmeter	150
Cutters, Print	118
Cycle Carrier	149

DARK Room Clocks	105
" " Lamps	113, 115
" " Pins	153
Dark Slides, "N & G"	
" " Single Metal ..	152
" " Double	152
" " Tents	151
Daylight Developing Machines	107-108
Daylight Enlargers	72-73
Desks, Retouching	159

DEVELOPERS:—	
Azol	103
"N & G"	125
Burroughs Wellcome & Co. ..	100-101
Scaloids	102-103

DEVELOPING, PRINTING AND ENLARGING ..	145-146-147
Developing Dishes	106-151
" " Sinks	109
" " Tanks	107-108
Dish Covers, Metal	149
Distance Finders	153-154
Draining Racks	152
Dropping Bottles	99
Dry Mounting Machines ..	117
Drying Box	152
Dusters, Dry Plate	151

ECLIPSE Changing Bag ..	150
Electric Arc Lamps ..	115
Enamel Pulp Slabs	160
Enlargers	72, 75
Enlarging	145-147
Enlarging Lantern	76
Enlarging Easels	76
Enlarging from Negatives ..	145-147

Index—continued.

	PAGE.
Explorers' Outfits	19
Exposure Clocks	105
Exposure Meters	109-110
" Note Books.....	153

FIELD GLASSES	95-96
Film Carriers	64
Film Developing Dish	151
Film Developing Tanks	107-108
Film Holder	64
Film Pack Adapter	112
Film Packs, "Premo"	130
Films	130
Films, Roll	130
Filters	128, 155, 163
Finders	33, 111
" Distance	153-154
Fixing Tanks	163
Flash Lamp	154
Flash Meter	154
Focussing Cloths	153
" Glasses	153
" Screens	153
FRAMES:—	
Printing	119, 127
Lantern Slide	156
Framing	145-147

GLASSES, Field	95-96
Gloves, Rubber	158
Graduated Measures	116
Granitine Dishes	106
Gas, Incandescent	77

HIGGINS' Mountant	157
Holders for Films	64
Houghton Envelope	112
Hypo-sulphite Storing Jars...	155

INCANDESCENT Gas	
Burner	77
Intensifier	104
Isochromatic Screens	155

JARS for Hypo	155
Jugs, Measuring	116

LABELS	157
LAMPS:—	
Arc	115
"N & G" Alcohol Vapor...	77
Arc for Printing	115
Dark Room	113-114-115, 163
"N & G" Superb	113
Nernst	77

LANTERN SLIDE:—	
Sundries	155-156
Plate Boxes	156
Printing Frames	156
Leather Cases (see Camera Lists).	
Leather Cases	149

LENSES:—	
Cooke	86-87
Dallmeyer	84-85
Goerz	88
Zeiss	78-81
Ross	82-83
Staley Wheeler	89
Telephoto	89, 91
Lens Adapter	94
" Caps	149
Levels	156
Levelling Tripod Top	157
Light Tight Bags	150
" Boxes	157
" Filters	128-129

MAGNIFYING Glasses ...	153
Measures	116
Measuring Jugs	116
Metal Dark Slides	152
" Dish Covers	149
Meters	109-110
Micro-Photography	21-22
Minimeter	99
Mirrors	157
Mountant	157-164
Mounting Machine	117
Mounts	97

NATURALIST Stands	143
Nautical Sextants	21
Negative Boxes	122
Nernst Lamp	77

OIL Pigment Sundries	138-139
Optical Lantern	76
Orthochromatic Light Filters	128-129
Outfits for Scientific Expeditions	19

PAPERS, Bromide	135-136
" Gaslight	131, 132, 135, 136
Papers, P.O.P.	130-131
" Self-toning	131, 132, 135, 136
" Oil Process	138
" Platinotype	140
" Platinum	131
" Phosphate	132
Paste for Mounting	157-164
Pencils, Retouching	122
Photographic Sink	100
Photo Micrography	21-22
Pins, Dark Room	153

PLATES:—	
Autochrome	124
General List	126
"N & G"	125
"Thames" Colour	123
Wratten & Wainwright ...	128-129
Plate Boxes	122
" Carriers	64
" Dusting Brushes	98
" Holders	64
" Racks	152
" Washers	120-121
Porcelain Dishes	106-151
Portable Developing Sink ...	109

Index—continued.

	PAGE.
"Premo" Film Pack	130
" " " Adapter	112
Print Meters	109-110
" Trimmers	118
" Washer	120, 121, 159
Printing Frames	119
Printing Frames Lantern Slide	156
Printing Frames "N & G" Special	127
PRINTING, DEVELOPING AND ENLARGING	
Prism Binoculars	145-147
Projection Apparatus	95-96
	158
RACKS , Draining	152
" " and Tanks	163
Refill Boxes	64
Reflex Cameras	43-50
" Mirrors	157
Releases, Antinous (see different Camera Lists).	
Retouching Desk	159
Retouching Pencils	122
Roll Films	130
Ross Lenses	82-83
Rubber Gloves	158
SAFE Lights	163
Scales and Weights	120
Scaloids	102-103
Screens, Focussing	153
Sextants, Nautical	21
SHUTTERS:—	
Central	93
Compound	92
Goerz	92
Linhof	94
Sanderson	93
Shutter Time Valve	93
Shutter Releases (see Camera Lists).	
Shutter Testing Machine	162
Sink, Developing	109

	PAGE.
Spotting Pencils	98
Squeegee Pad	160
Squeegee	160
Stands, Camera	141-142
Stanley's Dark Room Clock	105
Stereoscopic Cameras	62, 68, 71
Stereoscopes	161
Straps for Carrying Cameras	161
Surveying Levels	20
Swing Tap	161

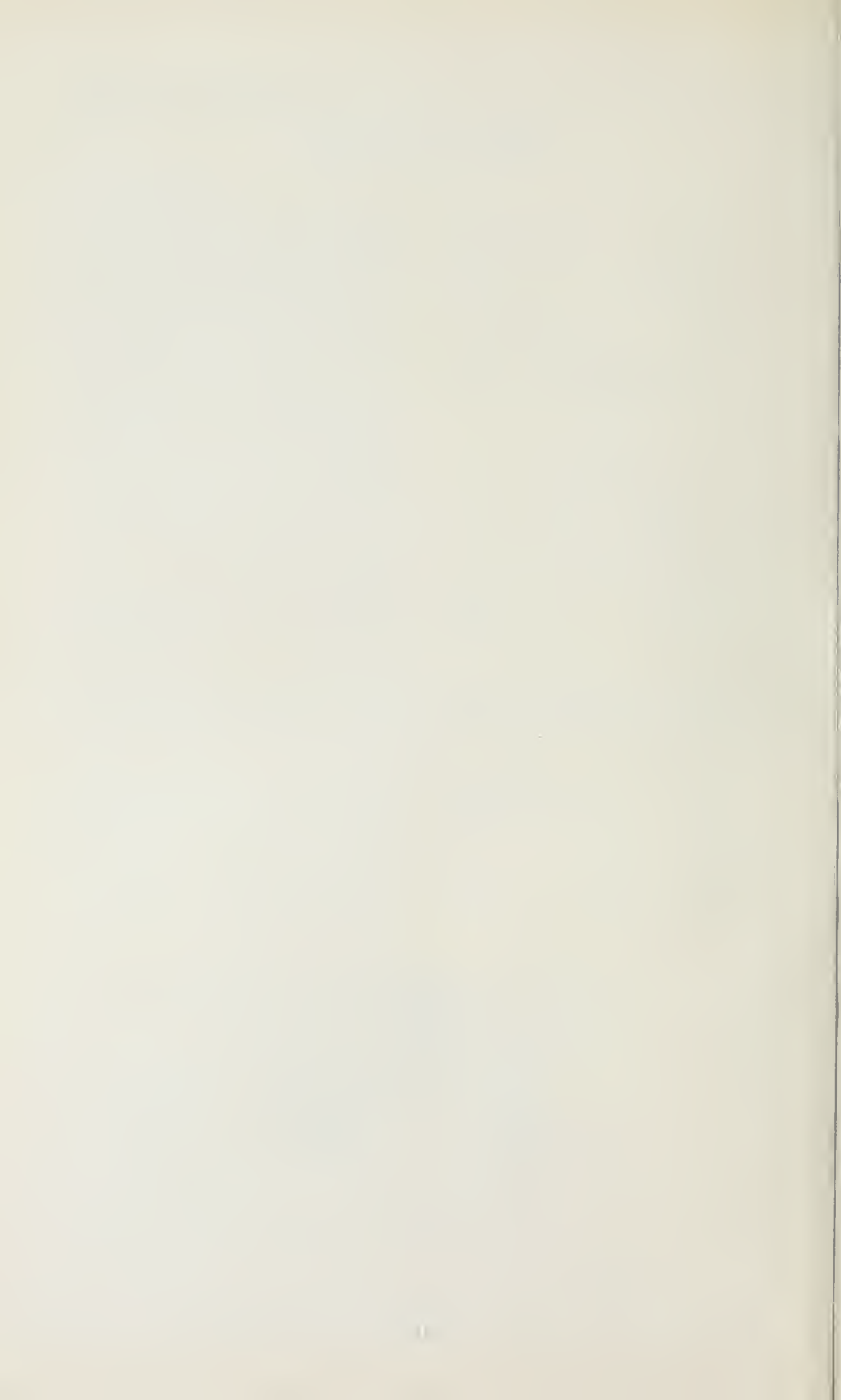
TABLOID Brand Chemicals	100-101
Tank Developing	107-108
Tank, Fixing	163
" " and Racks	163
" " Washing	107, 108, 163
Taps, Swing	161
Telemeter	153
Telephoto Calculator	162
Telephoto Lenses	89, 91
Telescopes	96
Tent Changing	151
"Thames" Colour Plate	123
Theodolite Explorers	20
Thermometer	162
Tilting Table	72
Time Indicator Shutter	93
Toner and Fixer	104
Topometer	144
Trimmers, Print	118, 163
Tripods	141-142
Tripod Ladder	143
" " Screws	142
Trough, Developing	107, 108
Tubing	159

UNIPOD	143
---------------------	-----

VARNISHES	163
------------------------	-----

WASHER , Plate	120-121
" " Print	120-121
Waterproof Covers	149
Wide Angle Front	67







Special

72-B

64+

